

RECORD OF COMMUNICATION

REGIONAL SAMPLE CONTROL CENTER

ROC #1

231780



DATE: 1/16/2008
SUBJECT: CLP Data Package for Quality Assurance Review
FROM: Hazardous Waste Support Section (HWSS)/RSCC
TO: HWSS ESAT-TOPO

TDF# 08-0205

Attached is the following ORGANIC Data Package to be reviewed for Quality Assurance

SITE: Cornell Dubilier

CASE #: 37088

SDG#: B4HK9, B4HP9, B4HM9

SAMPLER: W-RST

PROJ. CODE: RS SITE SPILL #: GZ

#SAMPLES

MATRIX

LAB: SHEALY OPERABLE UNIT: 00

60

Soil

TURN-AROUND-TIME: 21 day

CERCLIS ID #: NJD981557879

FRACTION:

PCBs

Contaminant(s) of Concern (If known)

REGION II RSCC DATA TRANSFER LOG

Relinquished By

Received By

Signature

Date/Time

Signature

Date/Time

Palmer 2/4/08 8²⁵ am

Debra Christine Allen 2/4/08 8:45 am

Debra Christine Allen 2/6/08

Shelthaler 2/6/08

Shelthaler 2/21/08

R. J. Skelley 2/21/08

R. J. Skelley 2/21/08 1³⁰ am

Palmer 2/21/08 1³⁰ pm

Palmer 2/21/08 1³⁰ pm

Palmer 2/21/08 1³⁰ pm

Palmer 2/21/08

Palmer 2/21/08

Adly Michael 2/21/08 3:35 pm

Adly Michael 2/21/08 3:35 PM

Adly Michael 2/21/08 4:35 PM

Adly Michael 2/21/08 4:35 PM

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HM9

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: SDG No.: B4HM9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL13010-001

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 017F1801

% Moisture: 14 Decanted: (Y/N) N

Date Received: 12/12/2007

Extraction: (Type) PFEX

Date Extracted: 12/18/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/22/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.6

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	570.490	-s * J
11096-82-5	Aroclor-1260	38	U
37324-23-5	Aroclor-1262	38	U
11100-14-4	Aroclor-1268	38	U

★ TRANSFERRED FROM B4HM9DL

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HN0

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: _____ SDG No.: B4HM9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL13010-002

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 018F1901

% Moisture: 30 Decanted: (Y/N) N

Date Received: 12/12/2007

Extraction: (Type) PFEEX

Date Extracted: 12/18/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/22/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.2

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	47	U
11104-28-2	Aroclor-1221	47	U
11141-16-5	Aroclor-1232	47	U
53469-21-9	Aroclor-1242	47	U
12672-29-6	Aroclor-1248	47	U
11097-69-1	Aroclor-1254	<u>21000</u> 29000	ES <u>★</u>
11096-82-5	Aroclor-1260	47	U
37324-23-5	Aroclor-1262	47	U
11100-14-4	Aroclor-1268	47	U

★ TRANSFERRED FROM B4HN0DL

1H - FORM I ARO
 AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HN1

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: SDG No.: B4HM9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL13010-003

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 019F2001

% Moisture: 12 Decanted: (Y/N) N

Date Received: 12/12/2007

Extraction: (Type) PFEX

Date Extracted: 12/18/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/22/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.8

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	21000 25000	38 *
11096-82-5	Aroclor-1260	38	U
37324-23-5	Aroclor-1262	38	U
11100-14-4	Aroclor-1268	38	U

* TRANSFERRED FROM B4HN1DL

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HN2RE

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: _____ SDG No.: B4HM9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL13010-004

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 014F1401

% Moisture: 23 Decanted: (Y/N) N

Date Received: 12/12/2007

Extraction: (Type) PFEX

Date Extracted: 12/18/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/22/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 5.8

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	43	U
11104-28-2	Aroclor-1221	43	U
11141-16-5	Aroclor-1232	43	U
53469-21-9	Aroclor-1242	43	U
12672-29-6	Aroclor-1248	43	U
11097-69-1	Aroclor-1254	320	<u>PJ</u>
11096-82-5	Aroclor-1260	43	U
37324-23-5	Aroclor-1262	43	U
11100-14-4	Aroclor-1268	43	U

SOM01.2 (10/2006)

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HN3

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: _____ SDG No.: B4HM9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL13010-005

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 021F2201

% Moisture: 12 Decanted: (Y/N) N

Date Received: 12/12/2007

Extraction: (Type) PFEX

Date Extracted: 12/18/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/22/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 7.0

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) :ug/kg	Q
12674-11-2	Aroclor-1016	37	U
11104-28-2	Aroclor-1221	37	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	37	U
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	3400 3500	ESA
11096-82-5	Aroclor-1260	37	U
37324-23-5	Aroclor-1262	37	U
11100-14-4	Aroclor-1268	37	U

★ TRANSFERRED FROM B4HN3DL

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HN4

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: _____ SDG No.: B4HM9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL13010-006

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 023F2401

% Moisture: 12 Decanted: (Y/N) N

Date Received: 12/12/2007

Extraction: (Type) PFEX

Date Extracted: 12/18/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/22/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 8.0

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	31000 29000	EPS *
11096-82-5	Aroclor-1260	38	U
37324-23-5	Aroclor-1262	38	U
11100-14-4	Aroclor-1268	38	U

*** TRANSFERRED FROM B4HN4DL**

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HN5

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: _____ SDG No.: B4HM9

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: IL13010-007

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: 017F1801

% Moisture: _____ Decanted: (Y/N) _____

Date Received: 12/12/2007

Extraction: (Type) CONT

Date Extracted: 12/17/2007

Concentrated Extract Volume: 10000.0 (uL)

Date Analyzed: 12/20/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg): <u>ug/L</u>	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HN6MS(1)

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-05-031
Lab Code: SHEALY Case No.: 37088 Mod. Ref No.: SDG No.: B4HM9
Matrix: (SOIL/SED/WATER) Soil Lab Sample ID: IL13010-008MS
Sample wt/vol: 15.0 (g/mL) g Lab File ID: 022F2301
% Moisture: 14 Decanted: (Y/N) N Date Received: 12/12/2007
Extraction: (Type) PFEX Date Extracted: 12/18/2007
Concentrated Extract Volume: 5000.0 (uL) Date Analyzed: 12/22/2007
Injection Volume: 1.0 (uL) GPC Factor: 1.0 Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 7.1 Sulfur Cleanup: (Y/N) Y
Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	130	
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	200	J
11096-82-5	Aroclor-1260	190	
37324-23-5	Aroclor-1262	38	U
11100-14-4	Aroclor-1268	38	U

SOM01.2 (10/2006)

1H - FORM I ARO
 AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HN6MSD(1)

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: _____ SDG No.: B4HM9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL13010-008MD

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 025F2601

% Moisture: 14 Decanted: (Y/N) N

Date Received: 12/12/2007

Extraction: (Type) PFEX

Date Extracted: 12/18/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/22/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.1

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) :ug/kg	Q
12674-11-2	Aroclor-1016	130	
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	180	J
11096-82-5	Aroclor-1260	180	
37324-23-5	Aroclor-1262	38	U
11100-14-4	Aroclor-1268	38	U

1H - FORM I ARO
 AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HN6RE

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: _____ SDG No.: B4HM9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL13010-008

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 018F1801

% Moisture: 14 Decanted: (Y/N) N

Date Received: 12/12/2007

Extraction: (Type) PFEX

Date Extracted: 12/18/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/22/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.1

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	120	U
11096-82-5	Aroclor-1260	38	U
37324-23-5	Aroclor-1262	38	U
11100-14-4	Aroclor-1268	38	U

SOM01.2 (10/2006)

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HN7

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: _____ SDG No.: B4HM9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL13010-009

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 026F2701

% Moisture: 27 Decanted: (Y/N) N

Date Received: 12/12/2007

Extraction: (Type) PFEX

Date Extracted: 12/18/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/22/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.2

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	45	U
11104-28-2	Aroclor-1221	45	U
11141-16-5	Aroclor-1232	45	U
53469-21-9	Aroclor-1242	45	U
12672-29-6	Aroclor-1248	45	U
11097-69-1	Aroclor-1254	<u>27000</u> 31000	U *
11096-82-5	Aroclor-1260	45	U
37324-23-5	Aroclor-1262	45	U
11100-14-4	Aroclor-1268	45	U

* TRANSFERRED FROM B4HN7DL

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HN8

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: _____ SDG No.: B4HM9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL13010-010

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 027F2801

% Moisture: 20 Decanted: (Y/N) N

Date Received: 12/12/2007

Extraction: (Type) PFEX

Date Extracted: 12/18/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/22/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.9

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	41	U
11104-28-2	Aroclor-1221	41	U
11141-16-5	Aroclor-1232	41	U
53469-21-9	Aroclor-1242	41	U
12672-29-6	Aroclor-1248	41	U
11097-69-1	Aroclor-1254	18000 20000	ES ★
11096-82-5	Aroclor-1260	41	U
37324-23-5	Aroclor-1262	41	U
11100-14-4	Aroclor-1268	41	U

★ TRANSFERRED FROM B4HN8 DL

1H - FORM I ARO
 AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HN9

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: _____ SDG No.: B4HM9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL13010-011

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 028F2901

% Moisture: 17 Decanted: (Y/N) N

Date Received: 12/12/2007

Extraction: (Type) PFEX

Date Extracted: 12/18/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/22/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.3 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	40	U
11104-28-2	Aroclor-1221	40	U
11141-16-5	Aroclor-1232	40	U
53469-21-9	Aroclor-1242	40	U
12672-29-6	Aroclor-1248	40	U
11097-69-1	Aroclor-1254	<u>30000</u> 34000	U <u>★</u>
11096-82-5	Aroclor-1260	40	U
37324-23-5	Aroclor-1262	40	U
11100-14-4	Aroclor-1268	40	U

★ TRANSFERRED FROM B4HN9DL

1H - FORM I ARO
 AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HP0

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: SDG No.: B4HM9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL13010-012

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 029F3001

% Moisture: 17 Decanted: (Y/N) N

Date Received: 12/12/2007

Extraction: (Type) PFEX

Date Extracted: 12/18/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/22/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.7

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	40	U
11104-28-2	Aroclor-1221	40	U
11141-16-5	Aroclor-1232	40	U
53469-21-9	Aroclor-1242	40	U
12672-29-6	Aroclor-1248	40	U
11097-69-1	Aroclor-1254	18000 21000	ES *
11096-82-5	Aroclor-1260	40	U
37324-23-5	Aroclor-1262	40	U
11100-14-4	Aroclor-1268	40	U

*** TRANSFERRED FROM B4HP0DL**

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HP1

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: SDG No.: B4HM9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL13010-013

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 030F3101

% Moisture: 17 Decanted: (Y/N) N

Date Received: 12/12/2007

Extraction: (Type) PFEX

Date Extracted: 12/18/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/22/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.6

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) :ug/kg	Q
12674-11-2	Aroclor-1016	40	U
11104-28-2	Aroclor-1221	40	U
11141-16-5	Aroclor-1232	40	U
53469-21-9	Aroclor-1242	40	U
12672-29-6	Aroclor-1248	40	U
11097-69-1	Aroclor-1254	21000 23000	ES *
11096-82-5	Aroclor-1260	40	U
37324-23-5	Aroclor-1262	40	U
11100-14-4	Aroclor-1268	40	U

* TRANSFERRED FROM B4HP1DL

1H - FORM I ARO
 AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HP2

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: _____ SDG No.: B4HM9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL13010-014

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 031F3201

% Moisture: 25 Decanted: (Y/N) N

Date Received: 12/12/2007

Extraction: (Type) PFEX

Date Extracted: 12/18/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/22/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 6.8

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	44	U
11104-28-2	Aroclor-1221	44	U
11141-16-5	Aroclor-1232	44	U
53469-21-9	Aroclor-1242	44	U
12672-29-6	Aroclor-1248	44	U
11097-69-1	Aroclor-1254	29000 32000	ES ★
11096-82-5	Aroclor-1260	44	U
37324-23-5	Aroclor-1262	44	U
11100-14-4	Aroclor-1268	44	U

★ TRANSFERRED FROM B4HP2DL

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HP3

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: _____ SDG No.: B4HM9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL13010-015

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 032F3301

% Moisture: 18 Decanted: (Y/N) N

Date Received: 12/12/2007

Extraction: (Type) PFEX

Date Extracted: 12/18/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/22/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.8

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	40	U
11104-28-2	Aroclor-1221	40	U
11141-16-5	Aroclor-1232	40	U
53469-21-9	Aroclor-1242	40	U
12672-29-6	Aroclor-1248	40	U
11097-69-1	Aroclor-1254	<u>17000</u> 21000	<u>ES</u> *
11096-82-5	Aroclor-1260	40	U
37324-23-5	Aroclor-1262	40	U
11100-14-4	Aroclor-1268	40	U

* TRANSFERRED FROM B4HP3 DL

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HP4

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: _____ SDG No.: B4HM9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL13010-016

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 033F3401

% Moisture: 19 Decanted: (Y/N) N

Date Received: 12/12/2007

Extraction: (Type) PFEEX

Date Extracted: 12/18/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/22/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	41	U
11104-28-2	Aroclor-1221	41	U
11141-16-5	Aroclor-1232	41	U
53469-21-9	Aroclor-1242	41	U
12672-29-6	Aroclor-1248	41	U
11097-69-1	Aroclor-1254	24000 30000	US *
11096-82-5	Aroclor-1260	41	U
37324-23-5	Aroclor-1262	41	U
11100-14-4	Aroclor-1268	41	U

*** TRANSFERRED FROM B4HP4DL**

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HP5

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: SDG No.: B4HM9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL13010-017

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 034F3501

% Moisture: 15 Decanted: (Y/N) N

Date Received: 12/12/2007

Extraction: (Type) PFX

Date Extracted: 12/18/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/22/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.4

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	39	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	1300 1500	EP8 J
11096-82-5	Aroclor-1260	39	U
37324-23-5	Aroclor-1262	39	U
11100-14-4	Aroclor-1268	39	U

★ TRANSFERRED FROM B4HP5DL

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HP6RE

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: _____ SDG No.: B4HM9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL13010-018

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 029F2901

% Moisture: 32 Decanted: (Y/N) N

Date Received: 12/12/2007

Extraction: (Type) PFEK

Date Extracted: 12/18/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/22/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.6

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	49	U
11104-28-2	Aroclor-1221	49	U
11141-16-5	Aroclor-1232	49	U
53469-21-9	Aroclor-1242	49	U
12672-29-6	Aroclor-1248	49	U
11097-69-1	Aroclor-1254	170	U
11096-82-5	Aroclor-1260	49	U
37324-23-5	Aroclor-1262	49	U
11100-14-4	Aroclor-1268	49	U

SOM01.2 (10/2006)

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HP7

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-05-031
Lab Code: SHEALY Case No.: 37088 Mod. Ref No.: SDG No.: B4HM9
Matrix: (SOIL/SED/WATER) Soil Lab Sample ID: IL13010-019
Sample wt/vol: 15.0 (g/mL) g Lab File ID: 036F3701
% Moisture: 21 Decanted: (Y/N) N Date Received: 12/12/2007
Extraction: (Type) PFE Date Extracted: 12/18/2007
Concentrated Extract Volume: 5000.0 (uL) Date Analyzed: 12/22/2007
Injection Volume: 1.0 (uL) GPC Factor: 1.0 Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 7.3 Sulfur Cleanup: (Y/N) Y
Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	42	U
11104-28-2	Aroclor-1221	42	U
11141-16-5	Aroclor-1232	42	U
53469-21-9	Aroclor-1242	42	U
12672-29-6	Aroclor-1248	42	U
11097-69-1	Aroclor-1254	340 400	8 * J
11096-82-5	Aroclor-1260	42	U
37324-23-5	Aroclor-1262	42	U
11100-14-4	Aroclor-1268	42	U

* TRANSFERRED FROM B4HP7DL

SOM01.2 (10/2006)

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HP8

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: SDG No.: B4HM9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL13010-020

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 037F3801

% Moisture: 20 Decanted: (Y/N) N

Date Received: 12/12/2007

Extraction: (Type) PFEX

Date Extracted: 12/18/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/22/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.3

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) : <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	41	U
11104-28-2	Aroclor-1221	41	U
11141-16-5	Aroclor-1232	41	U
53469-21-9	Aroclor-1242	41	U
12672-29-6	Aroclor-1248	41	U
11097-69-1	Aroclor-1254	420.20	U ★
11096-82-5	Aroclor-1260	41	U
37324-23-5	Aroclor-1262	41	U
11100-14-4	Aroclor-1268	41	U

★ TRANSFERRED FROM B4HP8 DL

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ALCS71(2)

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-05-031
Lab Code: SHEALY Case No.: 37088 Mod. Ref No.: SDG No.: B4HM9
Matrix: (SOIL/SED/WATER) Water Lab Sample ID: IQ69871-002
Sample wt/vol: 1000 (g/mL) mL Lab File ID: 016F1701
% Moisture: Decanted: (Y/N) Date Received:
Extraction: (Type) CONT Date Extracted: 12/17/2007
Concentrated Extract Volume: 10000.0 (uL) Date Analyzed: 12/20/2007
Injection Volume: 1.0 (uL) GPC Factor: 1.0 Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y
Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/L</u>	Q
12674-11-2	Aroclor-1016	0.89	J
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	0.97	J
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

SOM01.2 (10/2006)

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ALCS59(1)

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-05-031
Lab Code: SHEALY Case No.: 37088 Mod. Ref No.: SDG No.: B4HM9
Matrix: (SOIL/SED/WATER) Soil Lab Sample ID: IQ69959-002
Sample wt/vol: 15.0 (g/mL) g Lab File ID: 016F1701
% Moisture: 0.00 Decanted: (Y/N) N Date Received:
Extraction: (Type) PFEX Date Extracted: 12/18/2007
Concentrated Extract Volume: 5000.0 (uL) Date Analyzed: 12/22/2007
Injection Volume: 1.0 (uL) GPC Factor: 1.0 Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 0.0 Sulfur Cleanup: (Y/N) Y
Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	37	
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	36	
37324-23-5	Aroclor-1262	33	U
11100-14-4	Aroclor-1268	33	U

SOM01.2 (10/2006)

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HP9

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: _____ SDG No.: B4HP9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL13011-001

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 020F2001

% Moisture: 20 Decanted: (Y/N) N

Date Received: 12/12/2007

Extraction: (Type) PFX

Date Extracted: 12/20/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/23/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.6

Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	41	U
11104-28-2	Aroclor-1221	41	U
11141-16-5	Aroclor-1232	41	U
53469-21-9	Aroclor-1242	41	U
12672-29-6	Aroclor-1248	41	U
11097-69-1	Aroclor-1254	9901000	EPAT
11096-82-5	Aroclor-1260	41	U
37324-23-5	Aroclor-1262	41	U
11100-14-4	Aroclor-1268	41	U

* TRANSFERRED FROM B4HP9DL

SOM01.2 (10/2006)

1H - FORM I ARO
 AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HQ0

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: _____ SDG No.: B4HP9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL13011-002

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 021F2101

% Moisture: 34 Decanted: (Y/N) N

Date Received: 12/12/2007

Extraction: (Type) PFEX

Date Extracted: 12/20/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/23/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.3

Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	50	U
11104-28-2	Aroclor-1221	50	U
11141-16-5	Aroclor-1232	50	U
53469-21-9	Aroclor-1242	50	U
12672-29-6	Aroclor-1248	50	U
11097-69-1	Aroclor-1254	15000 <u>17000</u>	U *
11096-82-5	Aroclor-1260	50	U
37324-23-5	Aroclor-1262	50	U
11100-14-4	Aroclor-1268	50	U

* TRANSFERRED FROM B4HQ0DL

1H - FORM I ARO
 AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HQ1

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: _____ SDG No.: B4HP9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL13011-003

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 022F2201

% Moisture: 18 Decanted: (Y/N) N

Date Received: 12/12/2007

Extraction: (Type) PFEX

Date Extracted: 12/20/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/23/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.2

Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	40	U
11104-28-2	Aroclor-1221	40	U
11141-16-5	Aroclor-1232	40	U
53469-21-9	Aroclor-1242	40	U
12672-29-6	Aroclor-1248	40	U
11097-69-1	Aroclor-1254	200	P
11096-82-5	Aroclor-1260	40	U
37324-23-5	Aroclor-1262	40	U
11100-14-4	Aroclor-1268	40	U

SOM01.2 (10/2006)

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HQ2

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: _____ SDG No.: B4HP9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL13011-004

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 023F2301

% Moisture: 19 Decanted: (Y/N) N

Date Received: 12/12/2007

Extraction: (Type) PFEX

Date Extracted: 12/20/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/23/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	41	U
11104-28-2	Aroclor-1221	41	U
11141-16-5	Aroclor-1232	41	U
53469-21-9	Aroclor-1242	41	U
12672-29-6	Aroclor-1248	41	U
11097-69-1	Aroclor-1254	<u>930</u> 850	<u>PF</u> U
11096-82-5	Aroclor-1260	41	U
37324-23-5	Aroclor-1262	41	U
11100-14-4	Aroclor-1268	41	U



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B4HQ2DL

1H - FORM I ARO
 AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HQ3

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: _____ SDG No.: B4HP9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL13011-005

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 026F2601

% Moisture: 19 Decanted: (Y/N) N

Date Received: 12/12/2007

Extraction: (Type) PFEX

Date Extracted: 12/20/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/23/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.7

Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	41	U
11104-28-2	Aroclor-1221	41	U
11141-16-5	Aroclor-1232	41	U
53469-21-9	Aroclor-1242	41	U
12672-29-6	Aroclor-1248	41	U
11097-69-1	Aroclor-1254	540 610	U ★
11096-82-5	Aroclor-1260	41	U
37324-23-5	Aroclor-1262	41	U
11100-14-4	Aroclor-1268	41	U

★ TRANSFERRED FROM B4H03DL

1H - FORM I ARO
 AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HQ4

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: _____ SDG No.: B4HP9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL13011-006

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 027F2701

% Moisture: 23 Decanted: (Y/N) N

Date Received: 12/12/2007

Extraction: (Type) PFX

Date Extracted: 12/20/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/23/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 8.0

Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	43	U
11104-28-2	Aroclor-1221	43	U
11141-16-5	Aroclor-1232	43	U
53469-21-9	Aroclor-1242	43	U
12672-29-6	Aroclor-1248	43	U
11097-69-1	Aroclor-1254	3500 3500	U *
11096-82-5	Aroclor-1260	43	U
37324-23-5	Aroclor-1262	43	U
11100-14-4	Aroclor-1268	43	U

* TRANSFERRED FROM B4HQ4DL

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HQ5

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-05-031
Lab Code: SHEALY Case No.: 37088 Mod. Ref No.: _____ SDG No.: B4HP9
Matrix: (SOIL/SED/WATER) Soil Lab Sample ID: IL13011-007
Sample wt/vol: 15.0 (g/mL) g Lab File ID: 028F2801
% Moisture: 16 Decanted: (Y/N) N Date Received: 12/12/2007
Extraction: (Type) PFEK Date Extracted: 12/20/2007
Concentrated Extract Volume: 5000.0 (uL) Date Analyzed: 12/23/2007
Injection Volume: 1.0 (uL) GPC Factor: 1.0 Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 7.6 Sulfur Cleanup: (Y/N) N
Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	39	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	5700 5500	★
11096-82-5	Aroclor-1260	39	U
37324-23-5	Aroclor-1262	39	U
11100-14-4	Aroclor-1268	39	U

★ TRANSFERRED FROM B4HQ5DL

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HQ6

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: SDG No.: B4HP9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL14046-001

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 006F0701

% Moisture: 12 Decanted: (Y/N) N

Date Received: 12/13/2007

Extraction: (Type) PFEX

Date Extracted: 12/19/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/23/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.7

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	37	U
11104-28-2	Aroclor-1221	37	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	37	U
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	7800 8000	EP *
11096-82-5	Aroclor-1260	37	U J
37324-23-5	Aroclor-1262	37	U
11100-14-4	Aroclor-1268	37	U

* TRANSFERRED FROM B4HQ6DL

1H - FORM I ARO
 AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HQ7

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-05-031
 Lab Code: SHEALY Case No.: 37088 Mod. Ref No.: SDG No.: B4HP9
 Matrix: (SOIL/SED/WATER) Soil Lab Sample ID: IL14046-002
 Sample wt/vol: 15.0 (g/mL) g Lab File ID: 007F0801
 % Moisture: 14 Decanted: (Y/N) N Date Received: 12/13/2007
 Extraction: (Type) PFEX Date Extracted: 12/19/2007
 Concentrated Extract Volume: 5000.0 (uL) Date Analyzed: 12/23/2007
 Injection Volume: 1.0 (uL) GPC Factor: 1.0 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: 7.7 Sulfur Cleanup: (Y/N) Y
 Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	39	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	7600-2700	EP*
11096-82-5	Aroclor-1260	39	U
37324-23-5	Aroclor-1262	39	U
11100-14-4	Aroclor-1268	39	U

* TRANSFERRED FROM B4HQ7DL

1H - FORM I ARO
 AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HQ8

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-05-031
 Lab Code: SHEALY Case No.: 37088 Mod. Ref No.: SDG No.: B4HP9
 Matrix: (SOIL/SED/WATER) Soil Lab Sample ID: IL14046-003
 Sample wt/vol: 15.0 (g/mL) g Lab File ID: 008F0901
 % Moisture: 15 Decanted: (Y/N) N Date Received: 12/13/2007
 Extraction: (Type) PFEX Date Extracted: 12/19/2007
 Concentrated Extract Volume: 5000.0 (uL) Date Analyzed: 12/23/2007
 Injection Volume: 1.0 (uL) GPC Factor: 1.0 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: 7.1 Sulfur Cleanup: (Y/N) Y
 Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	39	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	<u>1100</u> 1100	<u>EP</u> U *
11096-82-5	Aroclor-1260	39	<u>U</u> U *
37324-23-5	Aroclor-1262	39	U
11100-14-4	Aroclor-1268	39	U

*** TRANSFERRED FROM B4HQ8DL**

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HQ9

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: SDG No.: B4HP9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL14046-004

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 009F1001

% Moisture: 29 Decanted: (Y/N) N

Date Received: 12/13/2007

Extraction: (Type) PFEK

Date Extracted: 12/19/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/23/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.3

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	46	U
11104-28-2	Aroclor-1221	46	U
11141-16-5	Aroclor-1232	46	U
53469-21-9	Aroclor-1242	46	U
12672-29-6	Aroclor-1248	46	U
11097-69-1	Aroclor-1254	140	U P J
11096-82-5	Aroclor-1260	46	U J
37324-23-5	Aroclor-1262	46	U
11100-14-4	Aroclor-1268	46	U

SOM01.2 (10/2006)

1H - FORM I ARO
 AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HR0

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: SDG No.: B4HP9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL14046-005

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 010F1101

% Moisture: 21 Decanted: (Y/N) N

Date Received: 12/13/2007

Extraction: (Type) PFEX

Date Extracted: 12/19/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/23/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 6.4

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	42	U
11104-28-2	Aroclor-1221	42	U
11141-16-5	Aroclor-1232	42	U
53469-21-9	Aroclor-1242	42	U
12672-29-6	Aroclor-1248	42	U
11097-69-1	Aroclor-1254	1700 1600	EP ★ J
11096-82-5	Aroclor-1260	42	U J
37324-23-5	Aroclor-1262	42	U
11100-14-4	Aroclor-1268	42	U

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1H - FORM I ARO
 AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HR1

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: _____ SDG No.: B4HP9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL14046-006

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 011F1201

% Moisture: 24 Decanted: (Y/N) N

Date Received: 12/13/2007

Extraction: (Type) PFEX

Date Extracted: 12/19/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/23/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 8.0

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	43	U
11104-28-2	Aroclor-1221	43	U
11141-16-5	Aroclor-1232	43	U
53469-21-9	Aroclor-1242	43	U
12672-29-6	Aroclor-1248	43	U
11097-69-1	Aroclor-1254	1600 1500	EP * J
11096-82-5	Aroclor-1260	43	U J
37324-23-5	Aroclor-1262	43	U
11100-14-4	Aroclor-1268	43	U

* TRANSFERRED FROM B4HR1 D1

1H - FORM I ARO
 AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HR2

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: SDG No.: B4HP9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL14046-007

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 012F1301

% Moisture: 18 Decanted: (Y/N) N

Date Received: 12/13/2007

Extraction: (Type) PFEX

Date Extracted: 12/19/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/23/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.2

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	40	U
11104-28-2	Aroclor-1221	40	U
11141-16-5	Aroclor-1232	40	U
53469-21-9	Aroclor-1242	40	U
12672-29-6	Aroclor-1248	40	U
11097-69-1	Aroclor-1254	<u>2800</u> 2900	<u>U</u> U *
11096-82-5	Aroclor-1260	40	<u>U</u> U
37324-23-5	Aroclor-1262	40	U
11100-14-4	Aroclor-1268	40	U

* TRANSFERRED FROM B4HR2DL

1H - FORM I ARO
 AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HR3

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-05-031
 Lab Code: SHEALY Case No.: 37088 Mod. Ref No.: _____ SDG No.: B4HP9
 Matrix: (SOIL/SED/WATER) Soil Lab Sample ID: IL14046-008
 Sample wt/vol: 15.0 (g/mL) g Lab File ID: 013F1401
 % Moisture: 14 Decanted: (Y/N) N Date Received: 12/13/2007
 Extraction: (Type) PFEX Date Extracted: 12/19/2007
 Concentrated Extract Volume: 5000.0 (uL) Date Analyzed: 12/23/2007
 Injection Volume: 1.0 (uL) GPC Factor: 1.0 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: 6.3 Sulfur Cleanup: (Y/N) Y
 Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	<u>3100</u> 4100	U *
11096-82-5	Aroclor-1260	38	U <u>J</u>
37324-23-5	Aroclor-1262	38	U
11100-14-4	Aroclor-1268	38	U

* TRANSFERRED FROM B4HR3DL

1H - FORM I ARO
 AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HR4

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-05-031
 Lab Code: SHEALY Case No.: 37088 Mod. Ref No.: _____ SDG No.: B4HP9
 Matrix: (SOIL/SED/WATER) Soil Lab Sample ID: IL14046-009
 Sample wt/vol: 15.0 (g/mL) g Lab File ID: 014F1501
 % Moisture: 15 Decanted: (Y/N) N Date Received: 12/13/2007
 Extraction: (Type) PFEX Date Extracted: 12/19/2007
 Concentrated Extract Volume: 5000.0 (uL) Date Analyzed: 12/23/2007
 Injection Volume: 1.0 (uL) GPC Factor: 1.0 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: 6.8 Sulfur Cleanup: (Y/N) Y
 Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	39	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	4700 5100	U A
11096-82-5	Aroclor-1260	39	U J
37324-23-5	Aroclor-1262	39	U
11100-14-4	Aroclor-1268	39	U

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1H - FORM I ARO
 AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HR5

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: SDG No.: B4HP9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL14046-010

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 015F1601

% Moisture: 18 Decanted: (Y/N) N

Date Received: 12/13/2007

Extraction: (Type) PFEX

Date Extracted: 12/19/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/23/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.3

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	40	U
11104-28-2	Aroclor-1221	40	U
11141-16-5	Aroclor-1232	40	U
53469-21-9	Aroclor-1242	40	U
12672-29-6	Aroclor-1248	40	U
11097-69-1	Aroclor-1254	6800 7100	EP U A
11096-82-5	Aroclor-1260	40	U J
37324-23-5	Aroclor-1262	40	U
11100-14-4	Aroclor-1268	40	U

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1H - FORM I ARO
 AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HR6

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: SDG No.: B4HP9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL14046-011

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 016F1701

% Moisture: 19 Decanted: (Y/N) N

Date Received: 12/13/2007

Extraction: (Type) PFEX

Date Extracted: 12/19/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/23/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.3

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	41	U
11104-28-2	Aroclor-1221	41	U
11141-16-5	Aroclor-1232	41	U
53469-21-9	Aroclor-1242	41	U
12672-29-6	Aroclor-1248	41	U
11097-69-1	Aroclor-1254	41 <u>7300</u>	U <u>A</u>
11096-82-5	Aroclor-1260	41	U <u>J</u>
37324-23-5	Aroclor-1262	41	U
11100-14-4	Aroclor-1268	41	U

* TRANSFERRED FROM B4HR6DL

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

DO NOT USE

EPA SAMPLE NO.

B4HR6DL

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: _____ SDG No.: B4HP9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL14046-011

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 016F1701

% Moisture: 19 Decanted: (Y/N) N

Date Received: 12/13/2007

Extraction: (Type) PFEX

Date Extracted: 12/19/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/27/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH: 7.3

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	820	U
11104-28-2	Aroclor-1221	820	U
11141-16-5	Aroclor-1232	820	U
53469-21-9	Aroclor-1242	820	U
12672-29-6	Aroclor-1248	820	U
11097-69-1	Aroclor-1254	7300	<u>P</u>
11096-82-5	Aroclor-1260	820	U
37324-23-5	Aroclor-1262	820	U
11100-14-4	Aroclor-1268	820	U

SOM01.2 (10/2006)

1H - FORM I ARO
 AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HR7

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: _____ SDG No.: B4HP9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL14046-012

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 017F1801

% Moisture: 23 Decanted: (Y/N) N

Date Received: 12/13/2007

Extraction: (Type) PFEEX

Date Extracted: 12/19/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/23/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.7

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	43	U
11104-28-2	Aroclor-1221	43	U
11141-16-5	Aroclor-1232	43	U
53469-21-9	Aroclor-1242	43	U
12672-29-6	Aroclor-1248	43	U
11097-69-1	Aroclor-1254	43 25	U U
11096-82-5	Aroclor-1260	43	U J
37324-23-5	Aroclor-1262	43	U
11100-14-4	Aroclor-1268	43	U

1H - FORM I ARO
 AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HR8

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: SDG No.: B4HP9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL14046-013

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 020F2101

% Moisture: 12 Decanted: (Y/N) N

Date Received: 12/13/2007

Extraction: (Type) PFEX

Date Extracted: 12/19/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/23/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.8

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	37	U
11104-28-2	Aroclor-1221	37	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	37	U
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	37 27	U J
11096-82-5	Aroclor-1260	37	U
37324-23-5	Aroclor-1262	37	U
11100-14-4	Aroclor-1268	37	U

SOM01.2 (10/2006)

1H - FORM I ARO
 AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HQ2MS(1)

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: _____ SDG No.: B4HP9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL13011-004MS

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 024F2401

% Moisture: 19 Decanted: (Y/N) N

Date Received: 12/12/2007

Extraction: (Type) PFEX

Date Extracted: 12/20/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/23/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	170	<u>PJ</u>
11104-28-2	Aroclor-1221	41	U
11141-16-5	Aroclor-1232	41	U
53469-21-9	Aroclor-1242	41	U
12672-29-6	Aroclor-1248	41	U
11097-69-1	Aroclor-1254	850	<u>EPJ</u>
11096-82-5	Aroclor-1260	510	<u>PT</u>
37324-23-5	Aroclor-1262	41	U
11100-14-4	Aroclor-1268	41	U

SOM01.2 (10/2006)

1H - FORM I ARO
 AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HR7MS(1)

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: SDG No.: B4HP9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL14046-012MS

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 018F1901

% Moisture: 23 Decanted: (Y/N) N

Date Received: 12/13/2007

Extraction: (Type) PFEX

Date Extracted: 12/19/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/23/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 2.0

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	<u>120 160</u>	<u>P J</u>
11104-28-2	Aroclor-1221	43	U
11141-16-5	Aroclor-1232	43	U
53469-21-9	Aroclor-1242	43	U
12672-29-6	Aroclor-1248	43	U
11097-69-1	Aroclor-1254	290	<u>P J</u>
11096-82-5	Aroclor-1260	180	<u>P J</u>
37324-23-5	Aroclor-1262	43	U
11100-14-4	Aroclor-1268	43	U

1H - FORM I ARO
 AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HQ2MSD(1)

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: _____ SDG No.: B4HP9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL13011-004MD

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 025F2501

% Moisture: 19 Decanted: (Y/N) N

Date Received: 12/12/2007

Extraction: (Type) PFEF

Date Extracted: 12/20/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/23/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	140	<u>PJ</u>
11104-28-2	Aroclor-1221	41	U
11141-16-5	Aroclor-1232	41	U
53469-21-9	Aroclor-1242	41	U
12672-29-6	Aroclor-1248	41	U
11097-69-1	Aroclor-1254	680	<u>PJ</u>
11096-82-5	Aroclor-1260	410	<u>PJ</u>
37324-23-5	Aroclor-1262	41	U
11100-14-4	Aroclor-1268	41	U

SOM01.2 (10/2006)

1H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HR7MSD(1) ✓

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: _____ SDG No.: B4HP9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL14046-012MD

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 019F2001

% Moisture: 23 Decanted: (Y/N) N

Date Received: 12/13/2007

Extraction: (Type) PFEF

Date Extracted: 12/19/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/23/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 2.0

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	<u>150</u> 170	<u>J</u>
11104-28-2	Aroclor-1221	43	U
11141-16-5	Aroclor-1232	43	U
53469-21-9	Aroclor-1242	43	U
12672-29-6	Aroclor-1248	43	U
11097-69-1	Aroclor-1254	320	<u>PJ</u>
11096-82-5	Aroclor-1260	200	<u>PJ</u>
37324-23-5	Aroclor-1262	43	U
11100-14-4	Aroclor-1268	43	U

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ALCS50(1)

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: SDG No.: B4HP9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IQ70050-002

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 019F1901

% Moisture: 0.00 Decanted: (Y/N) N

Date Received:

Extraction: (Type) PFEX

Date Extracted: 12/20/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/23/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 0.0

Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	31	J
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	34	
37324-23-5	Aroclor-1262	33	U
11100-14-4	Aroclor-1268	33	U

1H - FORM I ARO
 AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ALCS50(2)

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: SDG No.: B4HP9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IQ70050-002

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 019F1901

% Moisture: 0.00 Decanted: (Y/N) N

Date Received:

Extraction: (Type) PFEX

Date Extracted: 12/20/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/23/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 0.0

Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	31	J
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	37	
37324-23-5	Aroclor-1262	33	U
11100-14-4	Aroclor-1268	33	U

SOM01.2 (10/2006)

1H - FORM I ARO
 AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.:

ALCS51(2)

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: SDG No.: B4HP9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IQ70051-002

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 005F0601

% Moisture: 0.00 Decanted: (Y/N) N

Date Received:

Extraction: (Type) PFEX

Date Extracted: 12/19/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/23/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 0.0

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	26	J
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	54	P
37324-23-5	Aroclor-1262	33	U
11100-14-4	Aroclor-1268	33	U

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.:

B4HK9

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: _____ SDG No.: B4HK9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL13009-001

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 028F2901

% Moisture: 36 Decanted: (Y/N) N

Date Received: 12/12/2007

Extraction: (Type) PFEF

Date Extracted: 12/17/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/20/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: 7.1

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	100	U
11104-28-2	Aroclor-1221	100	U
11141-16-5	Aroclor-1232	100	U
53469-21-9	Aroclor-1242	100	U
12672-29-6	Aroclor-1248	100	U
11097-69-1	Aroclor-1254	<u>48000</u> 56000	U <u>★</u>
11096-82-5	Aroclor-1260	100	U
37324-23-5	Aroclor-1262	100	U
11100-14-4	Aroclor-1268	100	U

★ TRANSFERRED FROM B4HK9DL

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HLO

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: _____ SDG No.: B4HK9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL13009-002

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 029F3001

% Moisture: 34 Decanted: (Y/N) N

Date Received: 12/12/2007

Extraction: (Type) PFEEX

Date Extracted: 12/17/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/20/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: 7.1

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	100	U
11104-28-2	Aroclor-1221	100	U
11141-16-5	Aroclor-1232	100	U
53469-21-9	Aroclor-1242	100	U
12672-29-6	Aroclor-1248	100	U
11097-69-1	Aroclor-1254	<u>55000</u> 61000	E-PS *
11096-82-5	Aroclor-1260	100	U
37324-23-5	Aroclor-1262	100	U
11100-14-4	Aroclor-1268	100	U

* TRANSFERRED FROM B4HLODL

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HL1

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: SDG No.: B4HK9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL13009-003

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 030F3101

% Moisture: 54 Decanted: (Y/N) N

Date Received: 12/12/2007

Extraction: (Type) PFEX

Date Extracted: 12/17/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/20/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: 6.9

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	140	U
11104-28-2	Aroclor-1221	140	U
11141-16-5	Aroclor-1232	140	U
53469-21-9	Aroclor-1242	140	U
12672-29-6	Aroclor-1248	140	U
11097-69-1	Aroclor-1254	15000 16000	ES ★
11096-82-5	Aroclor-1260	140	U
37324-23-5	Aroclor-1262	140	U
11100-14-4	Aroclor-1268	140	U

★ TRANSFERRED FROM B4HL1DL

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HL2

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: SDG No.: B4HK9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL13009-004

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 031F3201

% Moisture: 13 Decanted: (Y/N) N

Date Received: 12/12/2007

Extraction: (Type) PFEX

Date Extracted: 12/17/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/21/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: 7.1

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	76	U
11104-28-2	Aroclor-1221	76	U
11141-16-5	Aroclor-1232	76	U
53469-21-9	Aroclor-1242	76	U
12672-29-6	Aroclor-1248	76	U
11097-69-1	Aroclor-1254	<u>1500</u> 1500	<u>E 8</u> *
11096-82-5	Aroclor-1260	76	U
37324-23-5	Aroclor-1262	76	U
11100-14-4	Aroclor-1268	76	U

* TRANSFERRED FROM B4HL2DL

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

Do NOT USE
EPA SAMPLE NO.

B4HL2DL

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: _____ SDG No.: B4HK9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL13009-004

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 021F2101

% Moisture: 13 Decanted: (Y/N) N

Date Received: 12/12/2007

Extraction: (Type) PFEX

Date Extracted: 12/17/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/21/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 4.0

GPC Cleanup: (Y/N) N pH: 7.1

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	150	U
11104-28-2	Aroclor-1221	150	U
11141-16-5	Aroclor-1232	150	U
53469-21-9	Aroclor-1242	150	U
12672-29-6	Aroclor-1248	150	U
11097-69-1	Aroclor-1254	1500	U
11096-82-5	Aroclor-1260	150	U
37324-23-5	Aroclor-1262	150	U
11100-14-4	Aroclor-1268	150	U

SOM01.2 (10/2006)

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HL3

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: _____ SDG No.: B4HK9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL13009-005

Sample wt/vol: 15.6 (g/mL) g

Lab File ID: 032F3301

% Moisture: 19 Decanted: (Y/N) N

Date Received: 12/12/2007

Extraction: (Type) PFEX

Date Extracted: 12/17/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/21/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: 6.9

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	79	U
11104-28-2	Aroclor-1221	79	U
11141-16-5	Aroclor-1232	79	U
53469-21-9	Aroclor-1242	79	U
12672-29-6	Aroclor-1248	79	U
11097-69-1	Aroclor-1254	1100 <u>1100</u>	PS <u>★</u> J
11096-82-5	Aroclor-1260	79	U
37324-23-5	Aroclor-1262	79	U
11100-14-4	Aroclor-1268	79	U

★ TRANSFERRED FROM B4HL3DL

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HL4

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: SDG No.: B4HK9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL13009-006

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 023F2301

% Moisture: 19 Decanted: (Y/N) N

Date Received: 12/12/2007

Extraction: (Type) PFEX

Date Extracted: 12/17/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/21/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.5

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	41	U
11104-28-2	Aroclor-1221	41	U
11141-16-5	Aroclor-1232	41	U
53469-21-9	Aroclor-1242	41	U
12672-29-6	Aroclor-1248	41	U
11097-69-1	Aroclor-1254	220	<u>23</u>
11096-82-5	Aroclor-1260	41	U
37324-23-5	Aroclor-1262	41	U
11100-14-4	Aroclor-1268	41	U

SOM01.2 (10/2006)

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HL5

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: _____ SDG No.: B4HK9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL13009-007

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 034F3501

% Moisture: 15 Decanted: (Y/N) N

Date Received: 12/12/2007

Extraction: (Type) PFEX

Date Extracted: 12/17/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/21/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: 6.6

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	77	U
11104-28-2	Aroclor-1221	77	U
11141-16-5	Aroclor-1232	77	U
53469-21-9	Aroclor-1242	77	U
12672-29-6	Aroclor-1248	4000 4690	E-PS*
11097-69-1	Aroclor-1254	4300 4980	E-S*
11096-82-5	Aroclor-1260	77	U
37324-23-5	Aroclor-1262	77	U
11100-14-4	Aroclor-1268	77	U

* TRANSFERRED FROM B4HL5DL

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HL6

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: SDG No.: B4HK9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL13009-008

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 035F3601

% Moisture: 17 Decanted: (Y/N) N

Date Received: 12/12/2007

Extraction: (Type) PFX

Date Extracted: 12/17/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/21/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: 7.5

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	80	U
11104-28-2	Aroclor-1221	80	U
11141-16-5	Aroclor-1232	80	U
53469-21-9	Aroclor-1242	80	U
12672-29-6	Aroclor-1248	<u>2700</u> 3200	<u>ES</u> PS <u>★</u>
11097-69-1	Aroclor-1254	<u>3300</u> 3500	<u>ES</u> PS <u>★</u>
11096-82-5	Aroclor-1260	80	U
37324-23-5	Aroclor-1262	80	U
11100-14-4	Aroclor-1268	80	U

★ TRANSFERRED FROM B4HL6 DL

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HL7

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-05-031
Lab Code: SHEALY Case No.: 37088 Mod. Ref No.: SDG No.: B4HK9
Matrix: (SOIL/SED/WATER) Soil Lab Sample ID: IL13009-009
Sample wt/vol: 15.0 (g/mL) g Lab File ID: 036F3701
% Moisture: 36 Decanted: (Y/N) N Date Received: 12/12/2007
Extraction: (Type) PFEX Date Extracted: 12/17/2007
Concentrated Extract Volume: 5000.0 (uL) Date Analyzed: 12/21/2007
Injection Volume: 1.0 (uL) GPC Factor: 1.0 Dilution Factor: 2.0
GPC Cleanup: (Y/N) N pH: 6.9 Sulfur Cleanup: (Y/N) Y
Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	100	U
11104-28-2	Aroclor-1221	100	U
11141-16-5	Aroclor-1232	100	U
53469-21-9	Aroclor-1242	100	U
12672-29-6	Aroclor-1248	100	U
11097-69-1	Aroclor-1254	43000 51000	ES
11096-82-5	Aroclor-1260	100	U
37324-23-5	Aroclor-1262	100	U
11100-14-4	Aroclor-1268	100	U

★ TRANSFERRED FROM B4HL7DL

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HL8

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: SDG No.: B4HK9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL13009-010

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 037F3801

% Moisture: 31 Decanted: (Y/N) N

Date Received: 12/12/2007

Extraction: (Type) PFEX

Date Extracted: 12/17/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/21/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: 7.0

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	96	U
11104-28-2	Aroclor-1221	96	U
11141-16-5	Aroclor-1232	96	U
53469-21-9	Aroclor-1242	96	U
12672-29-6	Aroclor-1248	96	U
11097-69-1	Aroclor-1254	37000 37000	U ★
11096-82-5	Aroclor-1260	96	U
37324-23-5	Aroclor-1262	96	U
11100-14-4	Aroclor-1268	96	U

★ TRANSFERRED FROM B4HL8DL

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HL9

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-05-031
Lab Code: SHEALY Case No.: 37088 Mod. Ref No.: SDG No.: B4HK9
Matrix: (SOIL/SED/WATER) Soil Lab Sample ID: IL13009-011
Sample wt/vol: 15.0 (g/mL) g Lab File ID: 038F3901
% Moisture: 22 Decanted: (Y/N) N Date Received: 12/12/2007
Extraction: (Type) PFEX Date Extracted: 12/17/2007
Concentrated Extract Volume: 5000.0 (uL) Date Analyzed: 12/21/2007
Injection Volume: 1.0 (uL) GPC Factor: 1.0 Dilution Factor: 2.0
GPC Cleanup: (Y/N) N pH: 7.4 Sulfur Cleanup: (Y/N) Y
Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	85	U
11104-28-2	Aroclor-1221	85	U
11141-16-5	Aroclor-1232	85	U
53469-21-9	Aroclor-1242	85	U
12672-29-6	Aroclor-1248	85	U
11097-69-1	Aroclor-1254	25000 26000	E 5 *
11096-82-5	Aroclor-1260	85	U
37324-23-5	Aroclor-1262	85	U
11100-14-4	Aroclor-1268	85	U

* TRANSFERRED FROM B4HL9DL

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HMO

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: _____ SDG No.: B4HK9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL13009-012

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 039F4001

% Moisture: 27 Decanted: (Y/N) N

Date Received: 12/12/2007

Extraction: (Type) PFX

Date Extracted: 12/17/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/21/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: 7.3

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	90	U
11104-28-2	Aroclor-1221	90	U
11141-16-5	Aroclor-1232	90	U
53469-21-9	Aroclor-1242	90	U
12672-29-6	Aroclor-1248	90	U
11097-69-1	Aroclor-1254	<u>26000</u> 27000	<u>E-S*</u>
11096-82-5	Aroclor-1260	90	U
37324-23-5	Aroclor-1262	90	U
11100-14-4	Aroclor-1268	90	U

* TRANSFERRED FROM B4HMODL

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HM1

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: _____ SDG No.: B4HK9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL13009-013

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 042F4301

% Moisture: 26 Decanted: (Y/N) N

Date Received: 12/12/2007

Extraction: (Type) PFEX

Date Extracted: 12/17/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/21/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: 7.0

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	89	U
11104-28-2	Aroclor-1221	89	U
11141-16-5	Aroclor-1232	89	U
53469-21-9	Aroclor-1242	89	U
12672-29-6	Aroclor-1248	89	U
11097-69-1	Aroclor-1254	<u>14000</u> 14000	<u>ES</u> *
11096-82-5	Aroclor-1260	89	U
37324-23-5	Aroclor-1262	89	U
11100-14-4	Aroclor-1268	89	U

* TRANSFERRED FROM B4HM1DL

SOM01.2 (10/2006)

1H - FORM I ARO
 AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HM2

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: _____ SDG No.: B4HK9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL13009-014

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 043F4401

% Moisture: 30 Decanted: (Y/N) N

Date Received: 12/12/2007

Extraction: (Type) PFEX

Date Extracted: 12/17/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/21/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: 6.9

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	94	U
11104-28-2	Aroclor-1221	94	U
11141-16-5	Aroclor-1232	94	U
53469-21-9	Aroclor-1242	94	U
12672-29-6	Aroclor-1248	94	U
11097-69-1	Aroclor-1254	12000 14000	EST
11096-82-5	Aroclor-1260	94	U
37324-23-5	Aroclor-1262	94	U
11100-14-4	Aroclor-1268	94	U

★ TRANSFERRED FROM B4HM2DL

SOM01.2 (10/2006)

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HM3

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: SDG No.: B4HK9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL13009-015

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 034F3401

% Moisture: 18 Decanted: (Y/N) N

Date Received: 12/12/2007

Extraction: (Type) PFEX

Date Extracted: 12/17/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/22/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.2

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	40	U
11104-28-2	Aroclor-1221	40	U
11141-16-5	Aroclor-1232	40	U
53469-21-9	Aroclor-1242	40	U
12672-29-6	Aroclor-1248	40	U
11097-69-1	Aroclor-1254	120	<u>✓</u>
11096-82-5	Aroclor-1260	40	U
37324-23-5	Aroclor-1262	40	U
11100-14-4	Aroclor-1268	40	U

SOM01.2 (10/2006)

1H - FORM I ARO
 AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HM4RE

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-05-031
 Lab Code: SHEALY Case No.: 37088 Mod. Ref No.: SDG No.: B4HK9
 Matrix: (SOIL/SED/WATER) Soil Lab Sample ID: IL13009-016
 Sample wt/vol: 15.0 (g/mL) g Lab File ID: 035F3501
 % Moisture: 15 Decanted: (Y/N) N Date Received: 12/12/2007
 Extraction: (Type) PFEX Date Extracted: 12/17/2007
 Concentrated Extract Volume: 5000.0 (uL) Date Analyzed: 12/22/2007
 Injection Volume: 1.0 (uL) GPC Factor: 1.0 Dilution Factor: 2.0
 GPC Cleanup: (Y/N) N pH: 7.3 Sulfur Cleanup: (Y/N) Y
 Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	78	U
11104-28-2	Aroclor-1221	78	U
11141-16-5	Aroclor-1232	78	U
53469-21-9	Aroclor-1242	78	U
12672-29-6	Aroclor-1248	78	U
11097-69-1	Aroclor-1254	560	<u>P</u>
11096-82-5	Aroclor-1260	78	U
37324-23-5	Aroclor-1262	78	U
11100-14-4	Aroclor-1268	78	U

SOM01.2 (10/2006)

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HM5

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: _____ SDG No.: B4HK9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL13009-017

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 046F4701

% Moisture: 33 Decanted: (Y/N) N

Date Received: 12/12/2007

Extraction: (Type) PFEX

Date Extracted: 12/17/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/21/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: 6.8

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	98	U
11104-28-2	Aroclor-1221	98	U
11141-16-5	Aroclor-1232	98	U
53469-21-9	Aroclor-1242	98	U
12672-29-6	Aroclor-1248	98	U
11097-69-1	Aroclor-1254	<u>48000</u> 56000	<u>E-PSA</u>
11096-82-5	Aroclor-1260	98	U
37324-23-5	Aroclor-1262	98	U
11100-14-4	Aroclor-1268	98	U

* TRANSFERRED FROM B4HM5DL

SOM01.2 (10/2006)

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HM6

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: _____ SDG No.: B4HK9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL13009-018

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 047F4801

% Moisture: 24 Decanted: (Y/N) N

Date Received: 12/12/2007

Extraction: (Type) PFEX

Date Extracted: 12/17/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/21/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: 6.8

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	87	U
11104-28-2	Aroclor-1221	87	U
11141-16-5	Aroclor-1232	87	U
53469-21-9	Aroclor-1242	87	U
12672-29-6	Aroclor-1248	21000 22000	E-PS *
11097-69-1	Aroclor-1254	17000 18000	E-S *
11096-82-5	Aroclor-1260	87	U
37324-23-5	Aroclor-1262	87	U
11100-14-4	Aroclor-1268	87	U

* TRANSFERRED FROM B4HM6DL

SOM01.2 (10/2006)

1H - FORM I ARO
 AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HM7

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: SDG No.: B4HK9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL13009-019

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 048F4901

% Moisture: 23 Decanted: (Y/N) N

Date Received: 12/12/2007

Extraction: (Type) PFEX

Date Extracted: 12/17/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/21/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: 7.1

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	85	U
11104-28-2	Aroclor-1221	85	U
11141-16-5	Aroclor-1232	85	U
53469-21-9	Aroclor-1242	85	U
12672-29-6	Aroclor-1248	85	U
11097-69-1	Aroclor-1254	<u>2600</u> 2500	<u>ES*</u>
11096-82-5	Aroclor-1260	85	U
37324-23-5	Aroclor-1262	85	U
11100-14-4	Aroclor-1268	85	U

* TRANSFERRED FROM B4HM7DL

SOM01.2 (10/2006)

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HM8

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: SDG No.: B4HK9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL13009-020

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 039F3901

% Moisture: 16 Decanted: (Y/N) N

Date Received: 12/12/2007

Extraction: (Type) PFEX

Date Extracted: 12/17/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/22/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.3

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	39	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	76	U
11096-82-5	Aroclor-1260	39	U
37324-23-5	Aroclor-1262	39	U
11100-14-4	Aroclor-1268	39	U

SOM01.2 (10/2006)

1H - FORM I ARO
 AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HMOMS(1)

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: _____ SDG No.: B4HK9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL13009-012MS

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 040F4101

% Moisture: 27 Decanted: (Y/N) N

Date Received: 12/12/2007

Extraction: (Type) PFEX

Date Extracted: 12/17/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/21/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: 2.0

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	2900	EP J
11104-28-2	Aroclor-1221	90	U
11141-16-5	Aroclor-1232	90	U
53469-21-9	Aroclor-1242	90	U
12672-29-6	Aroclor-1248	90	U
11097-69-1	Aroclor-1254	22000	EP J
11096-82-5	Aroclor-1260	6900	EP J
37324-23-5	Aroclor-1262	90	U
11100-14-4	Aroclor-1268	90	U

SOM01.2 (10/2006)

1H - FORM I ARO
 AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4HM0MSD(1)

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37088

Mod. Ref No.: _____ SDG No.: B4HK9

Matrix: (SOIL/SED/WATER) Soil

Lab Sample ID: IL13009-012MD

Sample wt/vol: 15.0 (g/mL) g

Lab File ID: 041F4201

% Moisture: 27 Decanted: (Y/N) N

Date Received: 12/12/2007

Extraction: (Type) PFEX

Date Extracted: 12/17/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 12/21/2007

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: 2.0

Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	4400	EP 1
11104-28-2	Aroclor-1221	90	U
11141-16-5	Aroclor-1232	90	U
53469-21-9	Aroclor-1242	90	U
12672-29-6	Aroclor-1248	90	U
11097-69-1	Aroclor-1254	27000	EP 1
11096-82-5	Aroclor-1260	7700	EP 1
37324-23-5	Aroclor-1262	90	U
11100-14-4	Aroclor-1268	90	U

SOM01.2 (10/2006)

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ALCS68(1)

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-05-031
Lab Code: SHEALY Case No.: 37088 Mod. Ref No.: SDG No.: B4HK9
Matrix: (SOIL/SED/WATER) Soil Lab Sample ID: IQ69868-002
Sample wt/vol: 15.0 (g/mL) g Lab File ID: 017F1701
% Moisture: 0.00 Decanted: (Y/N) N Date Received:
Extraction: (Type) PFEX Date Extracted: 12/17/2007
Concentrated Extract Volume: 5000.0 (uL) Date Analyzed: 12/21/2007
Injection Volume: 1.0 (uL) GPC Factor: 1.0 Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 0.0 Sulfur Cleanup: (Y/N) Y
Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	52	
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	62	
37324-23-5	Aroclor-1262	33	U
11100-14-4	Aroclor-1268	33	U

SOM01.2 (10/2006)

Functional Guidelines for Evaluating Organic Analysis

CASE No.:37088
LABORATORY: SHEALY
SAMPLER: W-RST

SDG No.: B4HP9 & B4HK9 & B4HM9
SITE: Cornell Dubilier
ANALYSIS: PCB

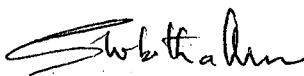
DATA ASSESSMENT

The current SOP HW-37 (Revision 1) August 2007, USEPA Region II Data Validation SOP for Statement of Work SOM01.2 for evaluating organic data have been applied.

All data are valid and acceptable except those analytes rejected "R"(unusable). Due to the detection of QC problems, some analytes may have the "J" (estimated), "N"(presumptive evidence for the presence of the material), "U" (non-detect) or "JN" (presumptive evidence for the presence of the material at an estimated value) flag. All action is detailed on the attached sheets.

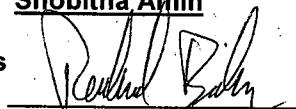
The "R" flag means that the associated value is unusable. In other words, significant data bias is evident and the reported analyte concentration is unreliable.

Reviewer's
Signature:


Shobitha Amin

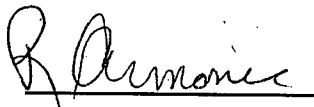
Date: February 120 /2008

Peer Reviewer's
Signature:



Date: Feb 121 /2008

Verified By:



Date: 2 / 21 /2008

SDG# B4HP9

1. HOLDING TIME:

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimated, "J". The non-detects (sample quantitation limits) will be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

The following action was taken in the samples and analytes shown due to excessive holding time.

No problems found for this qualification.

2. SURROGATES

All samples are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured surrogate concentrations were outside contract specifications, qualifications were applied to the samples and analytes as shown below.

ADSS2-The following aroclor samples have surrogate percent recoveries which exceed the primary maximum criteria but are less than or equal to the expanded maximum criteria. Detected compounds are qualified J. Nondetected compounds are not qualified.

- **Tetrachloro-m-xylene** ALCS51, B4HR7MS, B4HR7MSD

-Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260, Aroclor-1262, Aroclor-1268

3. MATRIX SPIKE/SPIKE DUPLICATE, MS/MSD:

AMS1-The relative percent difference (RPD) between the following aroclor matrix spike and matrix spike duplicate recoveries is outside criteria. Detected compounds are qualified J. Nondetected compounds are not qualified.

- **Aroclor-1260** B4HQ2MS, B4HQ2MSD, B4HQ2

- **Aroclor-1016** B4HQ2MS, B4HQ2MSD, B4HQ2

AMS4-The following Aroclor matrix/matrix spike duplicate samples have percent recoveries that are greater than the upper acceptance limit. Detected compounds are qualified J. Nondetected compounds are not qualified.

- **Aroclor-1260** B4HQ2MS, B4HQ2MSD, B4HQ2

Laboratory Control Samples (LCS):

The LCSs data provides information on the accuracy of the analytical method and laboratory performance. If LCS recoveries fell outside of the acceptable limits, qualifications were applied to the associated samples and compounds as shown below.

ALCS2-The following aroclor samples are associated with a laboratory control sample (LCS) with percent recoveries outside the upper limit of the criteria window. Detected compounds are qualified J. Nondetected compounds are not qualified.

-B4HQ6, B4HQ6DL, B4HQ7, B4HQ7DL, B4HQ8, B4HQ8DL, B4HQ9, B4HR0, B4HR0DL, B4HR1, B4HR1DL, B4HR2, B4HR2DL, B4HR3, B4HR3DL, B4HR4, B4HR4DL, B4HR5, B4HR5DL, B4HR6, B4HR6DL, B4HR7, B4HR7MS, B4HR7MSD, B4HR8

- Aroclor-1260 ALCS51

4. BLANK CONTAMINATION:

Quality assurance (QA) blanks, i.e., method, field, or rinse blanks are prepared to identify any contamination, which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Field and rinse blanks measure cross-contamination of samples during field operations. Depending on the concentration of the analyte in the blank, the analytes are qualified as non-detects U.

The following analytes in the sample shown were qualified with "U" for these reasons:

- A) Method blank contamination:
No additional qualification due to Instrument blank contamination.
- B) Field or rinse blank contamination:
No problems found for this qualification.

5. CALIBRATION:

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

- A) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):

For the PCB fraction, if %RSD exceeds 20% for all analytes and the two surrogates, qualify all associated positive results "J" and non-detects "UJ".

For opening CCV, or closing CCV that is used as an opening CCV for the next 12-hour period, if %D exceeds 15% for analytes and the two surrogates, qualify all associated positive results "J" and non-detects "UJ".

For closing CCV, if %D exceeds 50% for all analytes and the two surrogates, qualify all associated positive results "J" and non-detects "UJ".

The following analytes in the sample shown were qualified for %RSD and %D:

AC12-The following aroclor samples are associated with an opening or closing CCV with % Difference exceeding criteria. Detected compounds are qualified J. Nondetected compounds are

qualified UJ.

- Aroclor-1260 AR16603D2, AR16603Z6

-ABLK51, B4HP9DL, B4HQ0DL, B4HQ2DL, B4HQ3DL, B4HQ4DL, B4HQ5DL, B4HQ6, B4HQ7, B4HQ8, B4HQ9, B4HR0, B4HR1, B4HR2, B4HR3, B4HR4, B4HR5, B4HR6, B4HR7, B4HR7MS, B4HR7MSD, B4HR8

6. COMPOUND IDENTIFICATION:

A) PCB Fraction:

The retention times of reported compounds must fall within the calculated retention time windows for the two chromatographic columns and a GC/MS confirmation is required if the concentration exceeds 10ng/ml in the final sample extract.

ADL332-The following aroclor samples have percent differences between analyte results exceeding 50% and the results are below CRQL. Detected compounds are qualified U. Nondetected compounds are not qualified. Reported sample concentrations have been elevated to the CRQL.

QUALIFIED U:

- Aroclor-1254 B4HR7, B4HR8

ADL312-The following aroclor samples have percent differences between analyte results in the range of 26-70%. Detected compounds are qualified J. Nondetected compounds are not qualified.

QUALIFIED J:

- Aroclor-1260 B4HQ2MS, B4HQ2MSD, B4HR7MSD, B4HR7MS

- Aroclor-1254 B4HP9, B4HP9DL, B4HQ2, B4HQ2DL, B4HQ2MS, B4HQ2MSD, B4HQ6, B4HQ7, B4HR0DL, B4HR1DL, B4HR5, B4HR7MS, B4HR7MSD, B4HQ3, B4HQ3DL, B4HQ8, B4HQ9, B4HR0, B4HR1

- Aroclor-1016 B4HQ2MS, B4HQ2MSD

7. CONTRACT PROBLEMS NON-COMPLIANCE:

8. FIELD DOCUMENTATION:

9. OTHER PROBLEMS:

Sample# B4HR7: Aroclor-1254 was reported below CRQL in the sample. Aroclor-1254 was reported at 290 and 320 microgram/ kg in B4HR7MS & B4HR7MSD.

Aroclors, other than those reported may be present in some of the samples.

10. This package contains re-extracted, re-analyzed or dilution runs. Upon reviewing the QA results, the following Form 1(s) are identified NOT to be used.

ATTACHMENT 1
SOM01.2/Aroclors
SOP NO. HW-37

Page 5 of 11

B4HP9DL, B4HQ0DL, B4HQ2DL, B4HQ3DL, B4HQ4DL, B4HQ5DL, B4HQ6DL, B4HQ7DL,
B4HQ8DL, B4HR0DL, B4HR1DL, B4HR2DL, B4HR3DL, B4HR4DL, B4HR5DL, B4HR6DL,

SDG# B4HK9

1. HOLDING TIME:

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimated, "J". The non-detects (sample quantitation limits) will be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

The following action was taken in the samples and analytes shown due to excessive holding time.

No problems found for this qualification.

2. SURROGATES

All samples are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured surrogate concentrations were outside contract specifications, qualifications were applied to the samples and analytes as shown below.

No problems found for this qualification.

3. MATRIX SPIKE/SPIKE DUPLICATE, MS/MSD:

AMS1-The relative percent difference (RPD) between the following aroclor matrix spike and matrix spike duplicate recoveries is outside criteria. Detected compounds are qualified J. Nondetected compounds are not qualified.

- Aroclor-1016 B4HM0MS, B4HM0MSD, B4HM0

AMS4-The following Aroclor matrix/matrix spike duplicate samples have percent recoveries that are greater than the upper acceptance limit. Detected compounds are qualified J. Nondetected compounds are not qualified.

- Aroclor-1260 B4HM0MS, B4HM0MSD, B4HM0

- Aroclor-1016 B4HM0MS, B4HM0MSD, B4HM0

Laboratory Control Samples (LCS):

The LCSs data provides information on the accuracy of the analytical method and laboratory performance. If LCS recoveries fell outside of the acceptable limits, qualifications were applied to the associated samples and compounds as shown below.

No problems found for this qualification.

4. BLANK CONTAMINATION:

Quality assurance (QA) blanks, i.e., method, field, or rinse blanks are prepared to identify any contamination, which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Field and rinse blanks measure cross-contamination of samples during field operations. Depending on the concentration of the analyte in the blank, the analytes are qualified as non-detects U.

The following analytes in the sample shown were qualified with "U" for these reasons:

- A) **Method blank contamination:**
No problems found for this qualification.
- B) **Field or rinse blank contamination:**
No problems found for this qualification.

5. CALIBRATION:

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

- A) **Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):**

For the PCB fraction, if %RSD exceeds 20% for all analytes and the two surrogates, qualify all associated positive results "J" and non-detects "UJ".

For opening CCV, or closing CCV that is used as an opening CCV for the next 12-hour period, if %D exceeds 15% for analytes and the two surrogates, qualify all associated positive results "J" and non-detects "UJ".

For closing CCV, if %D exceeds 50% for all analytes and the two surrogates, qualify all associated positive results "J" and non-detects "UJ".

The following analytes in the sample shown were qualified for %RSD and %D:

AC16-The following aroclor samples are associated with an opening and a closing CCV that are not analyzed at the correct frequency. Detected compounds are qualified J.

- Aroclor-1254

B4HK9, B4HL0, B4HL1, B4HL2, B4HL3, B4HL5, B4HL6, B4HL7, B4HL8, B4HL9, B4HM0, B4HM0MS, B4HM0MSD, B4HM1, B4HM2, B4HM4, B4HM5, B4HM6, B4HM7

- Aroclor-1248

B4HL5, B4HL6, B4HM6

6. COMPOUND IDENTIFICATION:

- A) **PCB Fraction:**

The retention times of reported compounds must fall within the calculated retention time windows for the two chromatographic columns and a GC/MS confirmation is required if the concentration exceeds 10ng/ml in the final sample extract.

ADL312-The following aroclor samples have percent differences between analyte results in the range of 26-70%. Detected compounds are qualified J.

QUALIFIED J:

- Aroclor-1260 B4HM0MS, B4HM0MSD
- Aroclor-1254 B4HL0, B4HL3, B4HL3DL, B4HM3, B4HM4, B4HM4RE, B4HM8
- Aroclor-1248 B4HL5, B4HL5DL, B4HL6, B4HL6DL, B4HM6, B4HM6DL

ADL322-The following aroclor samples have percent differences between analyte results in the range of 71-100%. Detected compounds are qualified NJ.

QUALIFIED J:

- Aroclor-1254 B4HL4
- Aroclor-1016 B4HM0MSD, B4HM0MS

7. **CONTRACT PROBLEMS NON-COMPLIANCE:**

The following Aroclor samples have no associated initial instrument blank.

B4HK9, B4HL0, B4HL1, B4HL2, B4HL3, B4HL5, B4HL6, B4HL7, B4HL8, B4HL9, B4HM0, B4HM0MS, B4HM0MSD, B4HM1, B4HM2, B4HM4, B4HM5, B4HM6, B4HM7

8. **FIELD DOCUMENTATION:**

9. **OTHER PROBLEMS:**

10. **This package contains re-extracted, re-analyzed or dilution runs. Upon reviewing the QA results, the following Form 1(s) are identified NOT to be used.**

B4HK9DL, B4HL0DL, B4HL1DL, B4HL2DL, B4HL3DL, B4HL5DL, B4HL6DL, B4HL7DL, B4HL8DL, B4HL9DL, B4HM0DL, B4HM1DL, B4HM2DL, B4HM4, B4HM5DL, B4HM6DL, B4HM7DL

SDG# B4HM9

1. HOLDING TIME:

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimated, "J". The non-detects (sample quantitation limits) will be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

The following action was taken in the samples and analytes shown due to excessive holding time:

No problems found for this qualification.

2. SURROGATES

All samples are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured surrogate concentrations were outside contract specifications, qualifications were applied to the samples and analytes as shown below.

No problems found for this qualification.

3. MATRIX SPIKE/SPIKE DUPLICATE, MS/MSD:

No problems found for this qualification.

Laboratory Control Samples (LCS):

The LCSs data provides information on the accuracy of the analytical method and laboratory performance. If LCS recoveries fell outside of the acceptable limits, qualifications were applied to the associated samples and compounds as shown below.

No problems found for this qualification.

4. BLANK CONTAMINATION:

Quality assurance (QA) blanks, i.e., method, field, or rinse blanks are prepared to identify any contamination, which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Field and rinse blanks measure cross-contamination of samples during field operations. Depending on the concentration of the analyte in the blank, the analytes are qualified as non-detects U.

The following analytes in the sample shown were qualified with "U" for these reasons:

- A) **Method blank contamination:**
No problems found for this qualification.
- B) **Field or rinse blank contamination:**
No problems found for this qualification.

5. CALIBRATION:

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

- A) **Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):**

For the PCB fraction, if %RSD exceeds 20% for all analytes and the two surrogates, qualify all associated positive results "J" and non-detects "UJ".

For opening CCV, or closing CCV that is used as an opening CCV for the next 12-hour period, if %D exceeds 15% for analytes and the two surrogates, qualify all associated positive results "J" and non-detects "UJ".

For closing CCV, if %D exceeds 50% for all analytes and the two surrogates, qualify all associated positive results "J" and non-detects "UJ".

The following analytes in the sample shown were qualified for %RSD and %D:

AC16-The following aroclor samples are associated with an opening and a closing CCV that are not analyzed at the correct frequency. Detected compounds are qualified J.

- **Aroclor-1254** B4HM9, B4HN0, B4HN1, B4HN2, B4HN3, B4HN4, B4HN6, B4HN6MS, B4HN6MSD, B4HN7, B4HN8, B4HN9, B4HP0, B4HP1, B4HP2, B4HP3, B4HP4, B4HP5, B4HP6, B4HP7, B4HP8

6. COMPOUND IDENTIFICATION:

- A) **PCB Fraction:**

The retention times of reported compounds must fall within the calculated retention time windows for the two chromatographic columns and a GC/MS confirmation is required if the concentration exceeds 10ng/ml in the final sample extract.

ADL312-The following aroclor samples have percent differences between analyte results in the range of 26-70%. Detected compounds are qualified J.

QUALIFIED J:

- **Aroclor-1254** B4HM9DL, B4HN2, B4HP5DL

ADL322-The following aroclor samples have percent differences between analyte results in the range of 71-100%.

QUALIFIED J:

- Aroclor-1254 B4HN6RE, B4HP7DL, B4HP8DL

ADL352-The following aroclor samples have percent differences between analyte results in the range of 101-200%.

QUALIFIED J:

- Aroclor-1254 B4HN2RE, B4HP6RE

7. **CONTRACT PROBLEMS NON-COMPLIANCE:**
8. **FIELD DOCUMENTATION:**
9. **OTHER PROBLEMS:**
10. **This package contains re-extracted, re-analyzed or dilution runs. Upon reviewing the QA results, the following Form 1(s) are identified NOT to be used.**

B4HM9DL, B4HN0DL, B4HN1DL, B4HN2, B4HN3DL, B4HN4DL, B4HN6, B4HN7DL, B4HN8DL, B4HN9DL, B4HP0DL, B4HP1DL, B4HP2DL, B4HP3DL, B4HP4DL, B4HP5DL, B4HP6, B4HP7DL, B4HP8DL

SOP HW-37
Revision 1
August 2007

SOP NO. HW-37/Aroclor
Validation of Data
USEPA Contract Laboratory Program
Statement of Work for Organic Analysis of Low/Medium
Concentration of Aroclor Organic Compounds SOM01.2



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Date: 8/13/07

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Robert Runyon, Chief
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Reviewed by: Annual Review
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Date: _____

Reviewed by: _____
Name _____

Date: _____

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INTRODUCTION

Scope and Applicability

This SOP offers detailed guidance in evaluating laboratory data generated according to the method in the "USEPA Contract Laboratory Program Statement of Work for Organics Analysis Multi-Media, Multi-Concentration, SOM01.2, February 2007". The validation procedures and actions discussed in this document are based on the requirements set forth in the "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, July 2007". This document attempts to cover technical problems specific to low/Medium concentration of Aroclor compounds. Situations may arise where data limitations must be assessed based on the reviewer's own professional judgement.

In addition to technical requirements, contractual requirements may also be covered in this document. While it is important that instances of contract non-compliance be addressed in the Data Assessment, the technical criteria are always used to qualify the analytical data.

Summary

To ensure a thorough evaluation of each result in a data case, the reviewer must complete the checklist within this SOP, answering specific questions while performing the prescribed "ACTIONS" in each section. Qualifiers (or flags) are applied to questionable or unusable results as instructed. The data qualifiers discussed in this document are as follows:

Data Qualifiers

- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
- JN - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

- UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Lab Qualifiers:

- D - The positive value is the result of an analysis at a secondary dilution factor.
- B - The analyte is present in the associated method blank as well as in the sample. This qualifier has a different meaning when validating inorganic data.
- E - The concentration of this analyte exceeds the calibration range of the instrument.
- P - Pesticide/Aroclor target analytes when the % Difference between the analyte concentrations obtained from the two dissimilar GC columns is greater than 25%.

The reviewer must prepare a detailed data assessment to be submitted along with the completed SOP checklist. The Data Assessment must list all data qualifications, reasons for qualifications, instances of missing data and contract non-compliance.

Reviewer Qualifications:

Data reviewers must possess a working knowledge of the USEPA Statement of Work SOM01.2 and National Functional Guidelines mentioned above.

STANDARD OPERATING PROCEDURE

USEPA Region II

Date: August 2007

Method: CLP/SOW, SOM01.2/Aroclor

SOP HW-37/Aroclor, Revision 1

YES NO N/A

PACKAGE COMPLETENESS AND DELIVERABLES

CASE NUMBER: 37088 LAB: SHEALYSITE NAME: CORNELL DUBILIER SDG No(s): B4HP9 B4HM9 4

B4HK9

1.0 Chain of Custody and Sampling Trip Reports

- 1.1 Are the Traffic Reports/Chain-of-Custody Records present for all samples?

☒ 1 1

ACTION: If no, contact RSCC, or the TOPO to obtain replacement of missing or illegible copies from the lab.

- 1.2 Is the Sampling Trip Report present for all samples?

☒ 1 1

ACTION: If no, contact either RSCC or ask the TOPO to obtain the necessary information from the prime contractor.

2.0 Data Completeness and Deliverables

- 2.1 Have any missing deliverables been received and added to the data package?

1 1

ACTION: Contact the TOPO to obtain an explanation or resubmittal of any missing deliverables from the lab. If lab cannot provide them, note the effect on the review of the data package in the Contract Problems/Non-compliance section of the Data Assessment.

- 2.2 Was SMO/CLASS CCS checklist included with the package?

☒ 1 1

STANDARD OPERATING PROCEDURE

USEPA Region II

Method: CLP/SOW, SOM01.2/Aroclor

Date: August 2007

SOP HW-37/Aroclor, Revision 1

YES NO N/A

- 2.3 Are there any discrepancies between the Traffic Reports/Chain-of-Custody Records, and Sampling Trip Report? 1

ACTION: If yes, contact the TOPO to obtain an explanation or resubmittal of any missing deliverables from the laboratory.

3.0 Cover Letter SDG Narrative

- 3.1 Is the SDG Narrative or Cover Letter Present? 1

- 3.2 Are case number, SDG number and contract number contained in the SDG Narrative or cover letter (see SOW, Exhibit B, section 2.5.1)?
EPA sample numbers in the SDG, detailed documentation of any quality control, sample, shipment, and/or analytical problems encountered in processing the samples? Corrective action taken? 1

- 3.3 Does the Narrative contain the following information SOM01.1, page B-12, section 2.5.1)?
column used, storage of samples, case#, SDG#, analytical problems, and discrepancies between field and lab weights. 1

- 3.5 Did the contractor record the temperature of the cooler on the Form DC-1, Item 9 - Cooler Temperature, and in the SDG Narrative? 1

- 3.6 Does the Case Narrative contain the "verbatim" statement (page B-12, section 2.5.1 of the SOM)? 1

ACTION: If "No", to any question in this section, contact the TOPO to obtain necessary resubmittals. If unavailable, document under the Contract Problems/Non-Compliance section of the Data Assessment.

STANDARD OPERATING PROCEDURE

USEPA Region II
Method: CLP/SOW, SOM01.2/Aroclor

Date: August 2007
SOP HW-37/Aroclor, Revision 1

YES NO N/A

4.0 Data Validation Checklist

4.1 Check the package for the following (see SOM reporting requirements, section 2.1, page B-10):

a. Is the package paginated in ascending order starting from the SDG narrative?

☒ — —

b. Are all forms and copies legible?

☒ — —

c. Assembled in the order set forth in the SOW?

☒ — —

d. All Aroclor Data present?

☒ —

PART A: Low/Medium Aroclor Analyses

1.0 Sample Conditions/Problems

1.1 Do the Traffic Reports/Chain-of-Custody Records, Sampling Trip Report or Lab Narrative indicate any problems with sample receipt, condition of samples, analytical problems or special circumstances affecting the quality of the data?

— ☒ —

ACTION: If samples were not iced or the ice was melted upon arrival at the laboratory and the temperature of the cooler was $> 10^{\circ}\text{C}$, then flag all positive results with a "J" and all non-detects "UJ".

2.0 Holding Times

2.1 Have any Aroclor technical holding times, determined from date of collection to date of analysis, been exceeded?

— ☒ —

2.2 Preservation: Aqueous and Non-aqueous samples must be cooled at $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$.

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YES NO N/A

ACTION: Qualify sample results according to the following table.

Holding Time Actions for Low/Medium Aroclor Analyses

Matrix	Preserved	Criteria	Action	
			Detected Associated Compounds	Non-Detected Associated Compounds
Aqueous	No	≤ 7 days (extraction) < 40 days (analysis)	J*	UJ*
	No	> 7 days (extraction) > 40 days (analysis)	J	UJ
	Yes	≤ 7 days (extraction) ≤ 40 days (analysis)	No qualification	
	Yes	> 7 days (extraction) > 40 days (analysis)	J	UJ
	Yes/No	> 28 Days (extraction)	J	R
Non-aqueous	No	≤ 14 days (extraction) ≤ 40 days (analysis)	J*	UJ*
	No	> 14 days (extraction) > 40 days (analysis)	J	UJ
	Yes	≤ 14 days (extraction) ≤ 40 days (analysis)	No qualification	
	Yes	> 14 days (extraction) > 40 days (analysis)	J	UJ
	Yes/No	> 28 Days (extraction)	J	R

* Only if cooler temperature exceeds 10°C (see ACTION in Section 1.1 above).
No action required if temperature $\leq 10^\circ\text{C}$.

3.0 Surrogate Recovery (Form II ARO-1, Form II ARO-2, Form VIII ARO)3.1 Are the Aroclor Recovery Summary Forms present? 1

ACTION: Contact the TOPO to obtain an explanation/resubmittal from the lab. If missing deliverables are unavailable, document the effect in the Data Assessment.

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YES NO N/A

- 3.2 Were the two surrogates, tetrachloro-m-xylene (TCX) and decachlorobiphenyl (DCB) added to all samples, MS/MSD, LCS, blanks including standards?

☒ ☐ ☐

ACTION: If no, use professional judgment in qualifying data as missing surrogate analyte may not directly apply to target analytes.

- 3.3 Were outliers marked with an asterisk on Form II?

☒ ☐ ☐

ACTION: Circle all outliers with a red pencil.

If yes, were effected samples re-analyzed?

☒ ☐ ☐

- 3.4 The RTs of the surrogates in each mid-point Aroclor standards used for continuing calibration verification, all samples, including MS/MSD, LCS and all blanks must be within the calculated RT window. TCX must be within ± 0.05 minutes and DCB must be within ± 0.10 minutes of the mean retention time (RT) determined from the initial calibration and tabulated in Form VIII Pest:

Were any outliers marked with an asterisk on Form VIII ARO?

☐ ☒ ☐

ACTION: Circle all outliers with a red pencil. If any Surrogate is outside the required limits, qualify their associated target compounds (See Table below) as follows:

Surrogate Compound Recovery Action for Aroclors

Criteria	Action	
	Detected Target Compounds	Non-Detected Target Compounds
%R > 200%	J	No qualification
150% < %R ≤ 200%	J	No qualification
30% ≤ %R ≤ 150%	No qualification	
10% ≤ %R < 30%	J	UJ
%R < 10% (sample dilution not a factor)	J	R
%R < 10% (sample dilution is a factor)	J	Use Professional Judgement
RT out of RT window	Use professional judgment	
RT within RT window	No qualification	

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YES NO N/A

Note: Blank analysis having surrogates out of specification:

The reviewer must give special consideration to the validity of associated samples. Basic concern is whether the blank problems represent an isolated problem with the blank alone or whether there is a fundamental problem with the analytical process. For example, if one or more samples in the batch show acceptable surrogate recoveries, the reviewer may choose to consider the blank problem to be an isolated occurrence.

ACTION: Note in the Data Assessment under Contract Problems/Non-Compliance if the Lab did not perform reanalysis and reviewer's judgment regarding blank problem.

3.5 Are there any transcription/calculation errors between raw data and Form IIs? ✓

ACTION: If large errors exist, ask the TOPO to obtain an explanation/resubmittal from the lab, make any necessary corrections and note errors in the data assessment.

4.0 Matrix Spike/Matrix Spike Duplicate Recovery (Form III)

Note: Data for MS/MSD will not be present unless requested.

4.1 Are the MS/MSD Recovery Forms (Form III ARO) present? ✓

4.2 Was the MS/MSD analyzed at the required frequency (once per SDG, or every 20 samples, whichever is more frequent)? ✓

ACTION: If any MS/MSD data are missing, take action as specified in section 3.1 above.

ACTION: No action is taken on MS/MSD data alone. However, using professional judgement, the validator may use the MS and MSD results in conjunction with other QC criteria and determine the need for some qualification of the data. If Any MS/MSD % recovery or RPD is out of specification, qualify data to include the consideration of the existence of interference in the raw data. Consideration include, but not limited to the following "Action":

Matrix Spike/Matrix Spike Duplicate Action for Aroclor

Criteria	Action	
	Detected Spike Compounds	Non-detected Spike Compounds
%R or RPD > Upper Acceptance Limit	J	No qualification
20% ≤ %R < Lower Acceptance Limit	J	UJ

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YES NO N/A

%R < 20%	J	Use professional judgement
Lower Acceptance Limit ≤ %R; RPD ≤ Upper Acceptance Limit	No qualification	

Note: If it can be determined that the results of the MS/MSD affects only the sample spiked, limit qualification to only this sample. However, use professional judgment when it is determined through the MS/MSD results that the laboratory is having systematic problem in the analysis of one or more analytes that affect all associated samples.

5.0 Blanks (Form IV)

5.1 Is the Aroclor Method Blank Summary (Form IV ARO) present for aqueous and soil samples?

☒ — —

5.2 Frequency of Analysis: For the analysis of AROCLOR, has a method blank been analyzed for each SDG or every 20 samples, whichever is more frequent?

☒ — —

ACTION: If any blank data are missing, take action as specified above in section 3.1. If blank data is not available, reject "R" all associated positive data. However, using professional judgement, the data reviewer may substitute field blank data for missing method blank data.

5.3 A separate Form IV should be present if part of an extraction batch required sulfur removal. In such cases some samples will be listed on two blank summary forms - once under the method blank, and once under the sulfur clean-up blank (PCBLK). Was this additional blank raw data and Form IV submitted when required?

☐ — ☒

ACTION: If Form IV sulfur clean-up blank is missing, take action as specified in section 3.1 above.

5.4 Has a Aroclor instrument blank been analyzed at the beginning of every 12 hr. period following the initial calibration sequence (minimum contract requirement)?

★ ☒ — —

ACTION: If any blank data are missing, take action specified in Section 3.1.

★ INSTRUMENT BLANK IS MISSING FOR SDG # B4HK9.

5.5 Was the correct identification scheme used for all Aroclor blanks? (See page B-39, section 3.3.7.3 of SOM01.1 for further information)

☒ — —

ACTION: Contact the TOPO to obtain resubmittals or make the required corrections on the forms.

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YES NO N/A

Document in the Data Assessment under Contract Problems/Non-Compliance all corrections made by the validator.

- 5.6 Chromatography: Review the blank raw data chromatogram, quant. Reports and data system printout. Is the chromatographic performance (baseline stability) acceptable for each instrument?

SA 2/12/08
[initials]

✓

ACTION: Use professional judgement to determine the effect on the data.

- 5.7 Are all detected hits for target compounds in method, and field blanks less than the CRQL?

[initials]

ACTION: IF no, an explanation and laboratory's corrective actions must be addressed in the case SDG narrative. Contact TOPO to request from Lab. revised narrative and make a note in the Contract Problems/Non-Compliance section of the Data Assessment.

6.0 Contamination

NOTE: "Water blanks", "drill blanks", and distilled water blanks" are validated like any other sample, and are not used to qualify data. Do not confuse them with the other QC blanks discussed below.

- 6.1 Do any method/reagent or cleanup blanks contain positive hits for target Aroclor compounds with values greater than the CRQL for that analyte?

✓

[initials]

Note: The concentration of each target compound in the instrument blank must be less than the CRQL for that analyte.

ACTION: Make note in data assessment under Contract Problems/Non-Compliance if any blank contains hit above the CRQLs.

- 6.2 Do any instrument blanks contain positive Aroclor results with values greater than CRQLs?

✓

SA 2/12/08
[initials]

ACTION: Take the action specified in section 6.1.

- 6.3 Do any field/rinse blanks have positive Aroclor results?

✓

[initials]

NOTE: All field blank results associated with a particular group of samples (may exceed one per case) must be used to qualify data. Blanks may not be qualified because of contamination in another blank. Field blanks must be qualified for system monitoring compound, instrument performance criteria, spectral or calibration QC problems.

ACTION: Follow the directions in the table below to qualify results due to contamination. Use the largest value from all the associated

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YES NO N/A

blanks. If any blanks are grossly contaminated, all associated sample data should be qualified unusable (R).

Blank Action for Aroclor Analyses

Blank Type	Blank Result	Sample Result	Action for Samples
Method, Field, Sulfur Cleanup, Instrument	Detects	Not detected	No qualification required
	< CRQL	< CRQL	Report CRQL value with a U
		≥ CRQL	No qualification required
	= CRQL	< CRQL	Report CRQL value with a U
		≥ CRQL	No qualification required
	> CRQL	< CRQL	Report CRQL value with a U
		≥ CRQL and < blank contamination	Report concentration of sample with a U
		≥ CRQL and ≥ blank contamination	No qualification required
	Gross contamination	Detects	Qualify results as unusable R

NOTE: Analytes qualified "U" for blank contamination are treated as "hits" when qualifying for calibration criteria.

Note: When applied as described in the table above, the contaminant concentration in the blank are multiplied by the sample dilution factor.

6.4 Are there field/rinse/equipment blanks associated with every sample? ☒ ☐ ☐

ACTION: Note in data assessment if there's no associated field/rinse/equipment blank.

Exception: samples taken from a drinking water tap do not have associated field blanks.

7.0 Aroclor Initial and Continuing Calibration

7.1 Are the following Forms, chromatograms and data system printouts present?

a.) Form VI ARO-1/Aroclor Initial Calibration (Multipoint) ☒ ☐ ☐

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	YES	NO	N/A
b.) Form VI ARO-2/Aroclor Initial Calibration (Multipoint)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c.) Form VI ARO-3/Aroclor Initial Calibration(Singlepoint)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d.) Form VII ARO/Aroclor Calibration Verification	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e.) Form VIII ARO/Aroclor Analytical Sequence	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f.) Form X ARO/Identification Summary for Multicomponent Analysis	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7.2 Initial Calibration

7.2.1 Was the following contract required initial calibration sequence provided by the laboratory?

☒ ☐ ☐

Initial Calibration Sequence	
1.	Aroclor 1221 CS3 (400ng/ml)
2.	Aroclor 1232 CS3 (400 ng/ml)
3.	Aroclor 1242 CS3 (400 ng/ml)
4.	Aroclor 1248 CS3 (400 ng/ml)
5.	Aroclor 1254 CS3 (400 ng/ml)
6.	Aroclor 1262 CS3 (400 ng/ml)
7.	Aroclor 1268 CS3 (400 ng/ml)
8.	Aroclor1016/1260 (100 ng/ml) CS1
9.	Aroclor1016/1260 (200 ng/ml) CS1
10.	Aroclor1016/1260 (400 ng/ml) CS1
11.	Aroclor1016/1260 (800 ng/ml) CS1
12.	Aroclor1016/1260 (1600 ng/ml) CS1
13.	Instrument Blank

ACTION: If initial calibration is not performed or not performed in the proper sequence, notify the TOPO and make a note in the data assessment.

7.3 Are there any transcription/calculation errors between raw data and the Forms?

☐ ☐ ☒

ACTION: If large errors exist, take action specified in section 3.1 above.

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YES NO N/A

7.4 Mean Retention Time (RT) and RT Window

Were the following mean RT and RT window met:

☒ — —

a.) The mean RT of each of the three to five major peaks were determined from the five-point initial calibration for all Aroclors

b.) RT window was calculated as ± 0.07 for each of the three to five major peaks and ± 0.05 and ± 0.10 for the surrogates tetrachloro-m-xylene and decachlorobiphenyl, respectively.

ACTION: If no, follow the action as specified in section 3.1.

7.5 Was at least one chromatogram from each of the Aroclor standards yield peaks that give deflection between 50-100% of full scale?

☒ — —

ACTION: IF no, take action as specified in section 3.1.

7.6 Was the mean Calibration Factor (CF) calculated for the three to five major peaks of each Aroclor, as well as for the surrogates, over the initial calibration range?

☒ — —

7.7 Were the Percent Relative Standard Deviation (%RSD) of the Calibration Factor for the three to five major peaks < 20% of each of the Aroclor compounds and surrogates?

☒ — —

ACTION: If no, take action as specified in the following Table.

Initial Calibration Action for Aroclor Analyses

Criteria	Action	
	Detected Associated Compounds	Non-Detected Associated Compounds
Initial calibration is not performed or not performed in proper sequence	Use Professional Judgment and notify Contract Lab Program (CLP) Project Officer	
%RSD exceeds allowable limits *	J	UJ
%RSD within allowable limits *	No qualification	

* %RSD < 20.0% for Aroclors and surrogates (tetrachloro-m-xylene and decachlorobiphenyl).

7.8 Continuing Calibration Verification (CCV) (Form VII)

Were the Absolute Retention Time (RT) for each Aroclor and surrogate in the mid-point concentration (CS3) of

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YES NO N/A

the Standard used for CCV must be within the RT window determined from the initial calibration?

- 7.9 For opening CCV, or closing CCV that is used as an opening CCV for the next 12-hour period, the Percent Difference (%D) between the CF of each of the three to five peaks used to identify an Aroclor and surrogates in the mid-point concentration (CS3) of the Aroclor standards and the CF from the initial calibration must be within $\pm 15.0\%$.
- 7.10 For a closing CCV, the %D between the CF of each of the three to five peaks used to identify an Aroclor and surrogates in the mid-point concentration (CS3) of the Aroclor standards and the CF from the initial calibration must be within $\pm 50.0\%$.
- 7.11 No more than 14 hours may elapse from the injection of the instrument Blank that begins an analytical sequence (opening CCV) and the injection of the last mid-point concentration (CS3) of the Aroclor standards that ends an analytical sequence (closing CCV).
- 7.12 No more than 12 hours may elapse from the injection of the instrument blank that begins an analytical sequence (opening CCV and the injection of the last sample or blank that is part of the same analytical sequence.

Were sections 7.8 to 7.12 met?

Aroclor 1260 DID NOT MEET OPENING CCV CRITERIA FOR SD4 # B4HPC9 11 + ✓

ACTION: If no, use the following table to qualify Aroclor data:

- * SD4# B4HMG → Aroclor-1254 - OPENING & CLOSING CCV WAS NOT ANALYZED FOR INITIAL Continuing Calibration Verification (CCV) Action for Aroclor Analyses SET OF ANALYSE
- * SD4# B4HK9 → AROCLOR 1254 & 1248 → OPENING & CLOSING CCV WERE NOT ANALYZED FOR INITIAL SET OF ANALYSE

Criteria	ANALYZED FOR INITIAL SET OF ANALYSE Action	
	Detected Associated Compounds	Non-Detected Associated Compounds
RT out of RT Window	Use professional Judgment *	
Percent Difference not within limits $\pm 15\%$ as specified in section 7.9 above	J	UJ
Percent Difference not within limits $\pm 50\%$ as specified in section 7.10 above	J	UJ
Time elapsed is greater than acceptable limits as specified in section 7.11 & 7.12 above	R	
Percent Difference, time elapsed and RT are within acceptable limits	No qualification	

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YES NO N/A

* For non-detected target compounds in the affected samples, check to see if the sample chromatogram contain any peak that are close to the expected RT window of the Aroclor of interest.

If no peaks are present, consider the non-detected values to be valid and no qualification of the data is necessary.

If any peaks are present close to the expected RT window of the Aroclor of interest, qualify the non-detected values as presumptively present "N".

For detected compounds in the affected samples, if the peaks are within the RT window, no qualification of the data is necessary. If the peaks are close to the expected RT window of the Aroclors of interest, the reviewer may take additional effort to determine if sample peaks represent the compound of interest.

For example, the reviewer can examine the data package for the presence of three or more standards containing the Aroclor of interest that were run within the analytical sequence during which the sample was analyzed. If three or more such standards are present, the RT window can be re-evaluated using the mean RT of the standards.

If the peaks in the affected sample fall within the revised window, qualify the detected Aroclor as "JN".

If the reviewer cannot do anything with the data to resolve the problem of concern, qualify all non-detects as unuseable "R".

8.0 Analytical Sequence Check (Form VIII-ARO)

- 8.1 Is Form VIII-Pest present and complete for each column and each period of analyses?

☒ ☐ ☐

ACTION: If no, take action as specified in section 3.1

- 8.2 Was the proper analytical sequence followed for each initial calibration and subsequent analyses, and all standards analyzed at the required frequency for each GC/ECD instrument used?

☒ ☐ ☐

ACTION: If no, use professional judgment to determine the severity of the effect on the data and qualify accordingly. Generally, the effect is negligible unless the sequence was grossly altered and/or the calibration was out of QC limits.

- 8.3 Are the surrogate retention time (RT) from the initial calibration for TCX and DCB provided on Form VIII-Pest?

☒ ☐ ☐

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YES NO N/A

ACTION: If no, take action as specified in section 3.1

- 8.4 Was the asterisk (*) applied to the RT of any blanks, samples, standards, MS/MSD, and LCS that did not meet the QC Limits of ± 0.05 minutes for TCX (tetrachloro-m-xylene) and ± 0.10 minutes for DCB (decachlorobiphenyl)?

11 — J

ACTION: If any data are missing, take action specified in 3.1 above.

If no, use professional judgment to determine the severity of the effect on the data and qualify accordingly. Document in the data assessment under Contract Problems/Non-Compliance.

9.0 Sulfuric Acid and Gel Permeation Chromatography (GPC) Cleanup Procedures

- 9.1 Was sulfuric acid added to all extracts?

11 — —

Note: Sulfuric acid cleanup is mandatory for all extracts

ACTION: If no, take action specified in section 3.1

9.2 Gel Permeation Chromatography (GPC)

GPC is an optional cleanup procedure for both aqueous and non-aqueous samples that contain high molecular weight compounds that interfere with Aroclor analysis.

- 9.3 If GPC cleanup was performed on samples, GPC calibration is acceptable if the two UV traces meet the following requirements.
- a. Peaks must be observed and should be symmetrical for all compounds in the calibration solution.
 - b. Corn oil and phthalate peaks should exhibit greater than 85% resolution.
 - c. The phthalate and Methoxychlor peaks should exhibit greater than 85% resolution.
 - d. Methoxychlor and perylene peaks should exhibit greater than 85% resolution.
 - e. Perylene and sulfur peaks must be saturated and should exhibit greater than 90% baseline resolution.

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YES NO N/A

f. The RT shift is less than 5% between UV traces for bis(2-ethylhexylphthalate and perylene.

9.4 Were all above criteria met?

11 — ✓

ACTION: If no, examine the raw data for the presence of high molecular weight contaminants. Examine the subsequent sample data for unusual peaks and use professional judgment in qualifying the data.

10.0 Laboratory Control Samples (LCSs)

10.1 LCSs provide information on the accuracy of the analytical method and laboratory performance.

Aroclor Laboratory Control Sample Recovery - Aqueous and Non-Aqueous

Compound	% Recovery QC Limits
Aroclor 1016	50 - 150
Aroclor 1260	50 - 150
Tetrachloro-m-xylene (surrogate)	30 - 150
Decachlorobiphenyl (surrogate)	30 - 150

10.2 Were the above recoveries met?

11 *✓ —

Aroclor 1260 WAS ABOVE LIMITS IN SDU # B44P9

ACTION: If no, qualify the sample data as follows:

Criteria	ACTION	
	Detected Associated Compound	Non-Detected Associated Compound
%R> Upper Acceptance Limit	J	No qualification
%R< Lower Acceptance Limit	J	R
Lower Acceptance Limit < %R < Upper Acceptance Limit	No qualification	

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YES NO N/A

11.0 Aroclor Identification (Form X ARO/Identification Summary for Multicomponent Analysis)

- 11.1 Is Form X (ARO) complete for every sample in which Aroclor was detected?

☒ ☐ ☐

ACTION: Take action as specified in section 3.1 above.

- 11.2 The identification of a Multi component Aroclor by GC method is based primarily on RT data and pattern recognition. Were the following requirements met:

☒ ☐ ☐

- a.) A Minimum of 3 major peaks were selected for each Aroclor. If more than one Aroclor is observed in a sample, a peak common to other Aroclor(s) must not be used to quantitate other Aroclor. Lab must choose different peaks to quantitate each Aroclor.
- b.) If a chromatogram is replotted electronically to meet these requirements, the scaling factor used must be displayed on the chromatogram, and both the initial chromatogram and the replotted chromatogram must be submitted in the data package.
- c.) The Retention Time (RT) of both of the surrogates and reported target compounds must be within the calculated RT window of both columns.
- d.) When no analytes are identified in the sample, the chromatograms of the sample extract must use the same scaling factor used for the low-point standard of the initial calibration associated with those samples.
- e.) Chromatogram must display the largest peak of any Aroclor detected in the sample at less than full scale.
- f.) If an extract must be diluted, chromatograms must display Aroclor peaks between 25-100% of full scale.

ACTION: If retention times (RT) or peak apex cannot be verified, contact TOPO to obtain rescaled chromatograms from the lab.

If data reviewer identifies a peak in both GC columns that fall within the appropriate RT windows, but was reported as

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YES NO N/A

non-detect, the compound may be false negative. If necessary, contact TOPO to instruct laboratory to re-evaluate the chromatograms.

- 11.3 Are there any transcription/calculation errors in Form I and Form X ARO? 11 ✓

ACTION: Take action as specified in section 3.1 above.

- 11.4 Are the RTs of Aroclor peaks within the established RT window for analyses on both columns? ✓

- 11.5 Was the GC/MS confirmation provided for Aroclor concentration > 10 ug/ml in final extract? 11 ✓

NOTE: Laboratory is required to contact SMO to determine if GC/MS confirmation is required. Check the semivolatile TIC data for presence of Aroclors.

- 11.6 Is the per cent difference (%D) calculated for positive results on both columns < 25%?

11 ✓

Action: Reviewer must check columns for peak interferences for the positive hits. Qualify the Arclor (s) according to the following Table:

Action on Qualifying Positive Aroclor Results

Percent Differences	Qualifier
0 - 25%	None
26 - 70%	"J"
71 - 100%	"JN"
101 - 200% (No Peak Interferences)	"R"
101 - 200% (Interferences detected)*	"JN"

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YES NO N/A

> 50% (Aroclor value < CRQL)**	"U"
> 200%	"R"

* When interferences is detected on either column, qualify the data as "JN"

** When the Aroclor value is below CRQL and %D > 50%, raise the value to CRQL and qualify "U", undetected.

12.0 Target Aroclor List (TCL)

12.1 Are the Aroclor Analysis Data Sheets (Form I ARO) present with required header information on each page for samples, MS/MSD (if required), method and instrument blanks (per column & analysis)? ☒ ☐ ☐

12.2 Is the chromatographic performance acceptable with respect to baseline stability, full-scale attenuation, peak shape/resolution? ☒ ☐ ☐

SOME SAMPLES WERE NOT ACCEPTABLE SPECIALLY ON THE SECONDARY COLUMN
ACTION: If no, take action specified in section 3.1 above.

13.0 Compound Quantitation and Reported Detection Limits

13.1 Are there any transcription/calculation errors in the Form I results? Check at least two positive results. Were any errors found? ☐ ☐ ☒

ACTION: If errors were found, take action as specified in section 3.1 above.

13.2 Are the contract required quantitation limits (CRQL) adjusted to reflect sample dilution? ☒ ☐ ☐

ACTION: If errors exist, take action as specified in section 3.1 above.

ACTION: When a sample is required to be diluted, the lowest CRQL is used (unless a QC exceedance dictates the use of the higher CRQL from the diluted sample). Replace concentration which exceed the calibration range in the original analysis by crossing out the "E" value on the original Form I and substituting it with the result from the diluted sample. Specify which Form I to use.

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YES NO N/A

Use a red pencil and draw a red "X" across the entire page of all Form I's that should not be used, including those in the data summary package.

At the top or bottom of the Forms, write with red pencil, "DO Not Use".

Note: If the sample dilution factor (DF) is greater than 10, an additional 10 times more concentrated than the diluted sample extract must be analyzed and reported with the sample data. If the DF is less or equal to 10, but greater than 1, the results of the original undiluted analysis must also be reported (see SOM01.1/section 10.3.3.4/page D-44/ARO).

ACTION: IF the above requirement was not met, contact the TOPO to obtain an explanation/resubmittal from the lab and make a note in the Data Assessment under Contract Problems/Non-Compliance section.

13.3 For non-aqueous samples, were the percent moisture < 70%? 11 — —

Action: If the % moisture $\geq 70.0\%$ and $< 90.0\%$, qualify detects as "J" and non-detects as approximated "UJ" If the % Moisture $\geq 90\%$, qualify detects as "J" and non-detects as "R"

14.0 Field Duplicates

14.1 Were any field duplicates submitted for Aroclor analysis? 11 — —

ACTION: Compare the reported results for field duplicates and calculate the relative percent difference.

ACTION: Any gross variation between duplicate results must be addressed in the reviewer narrative. If large differences exist, contact the TOPO to confirm identification of field duplicates with the sampler.

STANDARD OPERATING PROCEDURE

USEPA Region II

Date: August 2007

Method: CLP/SOW, SOM01.2/Aroclor

SOP HW-37/Aroclor, Revision 1

YES NO N/A

STANDARD OPERATING PROCEDURE

USEPA Region II
Method: CLP/SOW, SOM01.2/Aroclor

Date: August 2007
SOP HW-37/Aroclor, Revision 1

YES NO N/A

Definitions

ARO - Aroclor
CCS - contract compliance screening
CF - Calibration Factor
CLASS - Contract Laboratory Analytical Services Support
CLP - Contract Laboratory Program
CRQL - Contract Required Quantitation Limit
GC/ECD - Gas Chromatography/Electron Capture Detector
kg - kilogram
µg - microgram
l - liter
ml - milliliter
QC - quality control
RAS - Routine Analytical Services
RPD - Relative Percent Difference
RRF - Relative Response Factor
RRF - Average Relative Response Factor (from initial calibration)
RRT - Relative Retention Time
RSD - Relative Standard Deviation
RT - Retention Time
RSCC - Regional Sample Control Center
SDG - Sample Delivery Group
SOP - standard operating procedure
SOW - Statement of Work
TCL - Target Compound List
TCLP - Toxicity Characteristics Leachate Procedure
TIC - Tentatively Identified Compound
TPO - Technical Project Officer
VTSR - Validated Time of Sample Receipt
TOPO - Task Order Project Officer

STANDARD OPERATING PROCEDURE

USEPA Region II

Method: CLP/SOW, SOM01.2/Aroclor

Date: August 2007

SOP HW-37/Aroclor, Revision 1

YES NO N/A

References

1. USEPA Contract Laboratory Program of Work for Organic Analysis Multi-Media, Multi-Concentration, SOW/CLP/SOM01.2, February 2007.
2. National Functional Guidelines for Superfund Organic Methods Data Review July 2007.

Shealy Environmental Services, Inc.

Contract Number: EPW05031

Date: 12/31/2007

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SDG Narrative

Case 37088

SDG B4HM9

EPA Sample Numbers

EPA Sample Number	Aroclor Fraction	Dilution/ Reanalysis
B4HM9	Yes	Yes
B4HN0	Yes	Yes
B4HN1	Yes	Yes
B4HN2	Yes	Yes
B4HN3	Yes	Yes
B4HN4	Yes	Yes
B4HN5	Yes	No
B4HN6	Yes	Yes
B4HN6MS	Yes	No
B4HN6MSD	Yes	No
B4HN7	Yes	Yes
B4HN8	Yes	Yes
B4HN9	Yes	Yes
B4HP0	Yes	Yes
B4HP1	Yes	Yes
B4HP2	Yes	Yes
B4HP3	Yes	Yes
B4HP4	Yes	Yes
B4HP5	Yes	Yes
B4HP6	Yes	Yes
B4HP7	Yes	Yes
B4HP8	Yes	Yes

Columns

Aroclor #1 DB-XLB 30m x 0.32mm x 0.50um

Aroclor #2 DB-35MS 30m x 0.32mm x 0.25um

PEST/Aroclor Equation

$$\text{Soil sample concentration (ug/Kg)} = \frac{(A_x)(V_i)(DF)(GPC)}{(CF)(V_i)(W_s)(D)}$$

Where

 A_x is the response (peak area) of the compound to be measured. CF is the mean calibration factor from the initial calibration (area/ng).

DF is the dilution factor.

GPC = V_{in}/V_{out} : GPC factor. V_{in} is the volume of extract loaded onto GPC column. V_{out} is the volume of extract collected after GPC cleanup. V_i is volume of the concentrated extract in uL. (If no GPC cleanup is performed, then $V_i = 1000uL$. If GPC cleanup is performed, then $V_i = V_{out}$.) V_i is the volume of the extract injected in uL. W_s is the weight of sample extracted in g..

$$D = \frac{100 - \% \text{Moisture}}{100}$$


Sample Receiving

The cooler temperature associated with these samples was 4.2°C.

Aroclor Fraction

All samples in the SDG were extracted by the Automated Solvent Extractor (ASE). To ensure proper extraction, approximately 15 grams of sample were used for extraction. The final volume of the extract was brought to 5mL, instead of 10mL, so the CRQLs remain the same.

I certify that this Sample Data Package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy Sample Data Package and in the electronic data deliverable has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.


Robert Zhu
Technical Director

12/31/07

Shealy Environmental Services, Inc.

Contract Number: EPW05031

Date: 12/31/2007

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HAZ. WASTE SUPPORT SEC

SDG Narrative

Case 37088

SDG B4HK9

EPA Sample Numbers

EPA Sample Number	Aroclor Fraction	Dilution/ Reanalysis
B4HK9	Yes	Yes
B4HL0	Yes	Yes
B4HL1	Yes	Yes
B4HL2	Yes	Yes
B4HL3	Yes	Yes
B4HL4	Yes	No
B4HL5	Yes	Yes
B4HL6	Yes	Yes
B4HL7	Yes	Yes
B4HL8	Yes	Yes
B4HL9	Yes	Yes
B4HM0	Yes	Yes
B4HM0MS	Yes	No
B4HM0MSD	Yes	No
B4HM1	Yes	Yes
B4HM2	Yes	Yes
B4HM3	Yes	No
B4HM4	Yes	Yes
B4HM5	Yes	Yes
B4HM6	Yes	Yes
B4HM7	Yes	Yes
B4HM8	Yes	No

ColumnsAroclor #1 DB-XLB 30m x 0.32mm x 0.50um
Aroclor #2 DB-35MS 30m x 0.32mm x 0.25um**PEST/Aroclor Equation**

$$\text{Soil sample concentration (ug/Kg)} = \frac{(A_x)(V_i)(DF)(GPC)}{(CF)(V_i)(W_s)(D)}$$

Where

 A_x is the response (peak area) of the compound to be measured. \overline{CF} is the mean calibration factor from the initial calibration (area/ng).

DF is the dilution factor.

GPC = V_{in}/V_{out} : GPC factor. V_{in} is the volume of extract loaded onto GPC column. V_{out} is the volume of extract collected after GPC cleanup. V_i is volume of the concentrated extract in uL. (If no GPC cleanup is performed, then $V_i = 1000\text{uL}$. If GPC cleanup is performed, then $V_i = V_{out}$.) V_i is the volume of the extract injected in uL. W_s is the weight of sample extracted in g..

$$D = \frac{100 - \% \text{Moisture}}{100}$$

Sample Receiving

The cooler temperature associated with these samples was 4.2°C.

Aroclor Fraction

All samples in the SDG were extracted by the Automated Solvent Extractor (ASE). To ensure proper extraction, approximately 15 grams of sample were used for extraction. The final volume of the extract was brought to 5mL, instead of 10mL, so the CRQLs remain the same.

I certify that this Sample Data Package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy Sample Data Package and in the electronic data deliverable has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.



Robert Zhu
Technical Director

12/31/07

Shealy Environmental Services, Inc.

Contract Number: EPW05031

Date: 01/09/2008

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SDG Narrative

Case 37088

SDG B4HP9

EPA Sample Numbers

EPA Sample Number	Aroclor Fraction	Dilution/ Reanalysis
B4HP9	Yes	Yes
B4HQ0	Yes	Yes
B4HQ1	Yes	No
B4HQ2	Yes	Yes
B4HQ2MS	Yes	No
B4HQ2MSD	Yes	No
B4HQ3	Yes	Yes
B4HQ4	Yes	Yes
B4HQ5	Yes	Yes
B4HQ6	Yes	Yes
B4HQ7	Yes	Yes
B4HQ8	Yes	Yes
B4HQ9	Yes	No
B4HR0	Yes	Yes
B4HR1	Yes	Yes
B4HR2	Yes	Yes
B4HR3	Yes	Yes
B4HR4	Yes	Yes
B4HR5	Yes	Yes
B4HR6	Yes	Yes
B4HR7	Yes	No
B4HR7MS	Yes	No
B4HR7MSD	Yes	No
B4HR8	Yes	No

ColumnsAroclor #1 DB-XLB 30m x 0.32mm x 0.50um
Aroclor #2 DB-35MS 30m x 0.32mm x 0.25um

PEST/Aroclor Equation	$\text{Soil sample concentration (ug/Kg)} = \frac{(A_x)(V_i)(DF)(GPC)}{(CF)(V_i)(W_s)(D)}$ <p>Where</p> <p>A_x is the response (peak area) of the compound to be measured.</p> <p>CF is the mean calibration factor from the initial calibration (area/ng).</p> <p>DF is the dilution factor.</p> <p>$GPC = V_{in}/V_{out}$: GPC factor.</p> <p>V_{in} is the volume of extract loaded onto GPC column.</p> <p>V_{out} is the volume of extract collected after GPC cleanup.</p> <p>V_i is volume of the concentrated extract in uL. (If no GPC cleanup is performed, then $V_i = 1000\text{uL}$. If GPC cleanup is performed, then $V_i = V_{out}$.)</p> <p>V_i is the volume of the extract injected in uL.</p> <p>W_s is the weight of sample extracted in g..</p> <p>$D = \frac{100 - \% \text{Moisture}}{100}$</p>
------------------------------	--

Sample Receiving

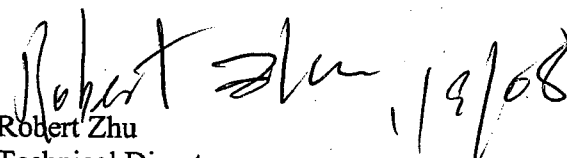
The cooler temperatures associated with these samples were 3.2 and 4.2°C.

Aroclor Fraction

All samples in the SDG were extracted by the Automated Solvent Extractor (ASE). To ensure proper extraction, approximately 15 grams of sample were used for extraction. The final volume of the extract was brought to 5mL, instead of 10mL, so the CRQLs remain the same.

The recovery of aroclor 1260 for ALCS51 on the DB-35ms column was high and outside the acceptance limit. It was due to an interfered peak that contains extra peak area. The recovery was well within range on the DB-XLB column.

I certify that this Sample Data Package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy Sample Data Package and in the electronic data deliverable has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.


 Robert Zhu
 Technical Director



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Sample Delivery Group (SDG) Cover Sheet

SDG Number: B4HK9

Laboratory Name: Shealy Environmental

Laboratory Code: SHEALY

Contract No.: EPW05031

Case No.: 37088

Analysis Price: \$440

SDG Turnaround: 21-DAY

Modified Analysis (if applicable): NO

Modification Reference No.: N/A

EPA Sample Numbers in SDG (Listed in Numerical Order)

1) B4HK9	7) B4HL5	13) B4HM1	19) B4HM7
2) B4HL0	8) B4HL6	14) B4HM2	20) B4HM8
3) B4HL1	9) B4HL7	15) B4HM3	21) N/A
4) B4HL2	10) B4HL8	16) B4HM4	22) N/A
5) B4HL3	11) B4HL9	17) B4HM5	23) N/A
6) B4HL4	12) B4HM0	18) B4HM6	24) N/A

B4HK9

First Sample in SDG

B4HM8

Last Sample in SDG

12/12/07

First Sample Receipt Date

12/12/07

Last Sample Receipt Date

Note: There are a maximum of 20 **field** samples [excluding Performance Evaluation (PE) samples] in an SDG. Attach the TR/COC Records to this form in alphanumeric order (the order listed above on this form).

Signature: *gullmanan*

Date: 12/12/07



Sample Delivery Group (SDG)
Cover Sheet

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SDG Number: B4HP9

Laboratory Name: Shealy Environmental

Laboratory Code: SHEALY

Contract No.: EPW05031

Case No.: 37088

Analysis Price: \$440

SDG Turnaround: 21-DAY

Modified Analysis (if applicable): NO

Modification Reference No.: N/A

EPA Sample Numbers in SDG (Listed in Numerical Order)

1) B4HP9	7) B4HQ5	13) B4HR1	19) B4HR7
2) B4HQ0	8) B4HQ6	14) B4HR2	20) B4HR8
3) B4HQ1	9) B4HQ7	15) B4HR3	21) N/A
4) B4HQ2	10) B4HQ8	16) B4HR4	22) N/A
5) B4HQ3	11) B4HQ9	17) B4HR5	23) N/A
6) B4HQ4	12) B4HR0	18) B4HR6	24) N/A

B4HP9

First Sample in SDG

B4RP8

Last Sample in SDG

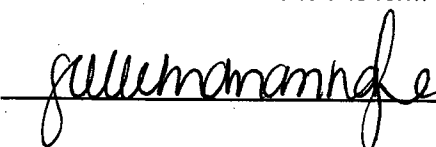
12/12/07

First Sample Receipt Date

12/13/07

Last Sample Receipt Date

Note: There are a maximum of 20 field samples [excluding Performance Evaluation (PE) samples] in an SDG. Attach the TR/COC Records to this form in alphanumeric order (the order listed above on this form).

Signature: 

Date: 12/20/07



Contract Laboratory Program

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Sample Delivery Group (SDG)
Cover Sheet

SDG Number: B4HM9

Laboratory Name: Shealy Environmental

Laboratory Code: SHEALY

Contract No.: EPW05031

Case No.: 37088

Analysis Price: \$440

SDG Turnaround: 21-DAY

Modified Analysis (if applicable): NO

Modification Reference No.: N/A

EPA Sample Numbers in SDG (Listed in Numerical Order)

1) B4HM9	7) B4HN5	13) B4HP1	19) B4HP7
2) B4HN0	8) B4HN6	14) B4HP2	20) B4HP8
3) B4HN1	9) B4HN7	15) B4HP3	21) N/A
4) B4HN2	10) B4HN8	16) B4HP4	22) N/A
5) B4HN3	11) B4HN9	17) B4HP5	23) N/A
6) B4HN4	12) B4HP0	18) B4HP6	24) N/A

B4HM9

First Sample in SDG

B4HP8

Last Sample in SDG

12/12/07

First Sample Receipt Date

12/12/07

Last Sample Receipt Date

Note: There are a maximum of 20 **field** samples [excluding Performance Evaluation (PE) samples] in an SDG. Attach the TR/COC Records to this form in alphanumeric order (the order listed above on this form).

Signature: *[Signature]*

Date: 12/20/07